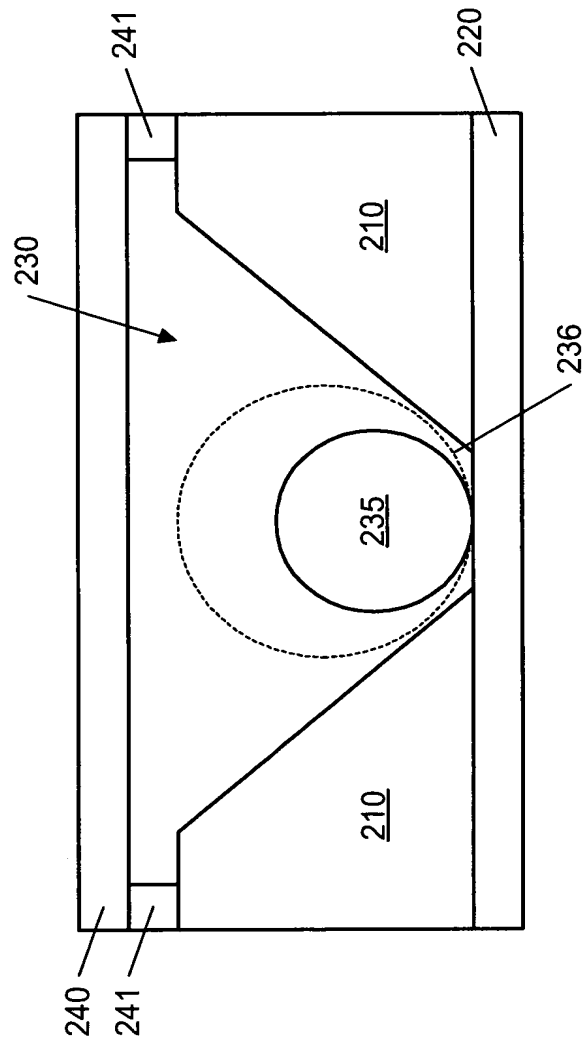


FIG. 1



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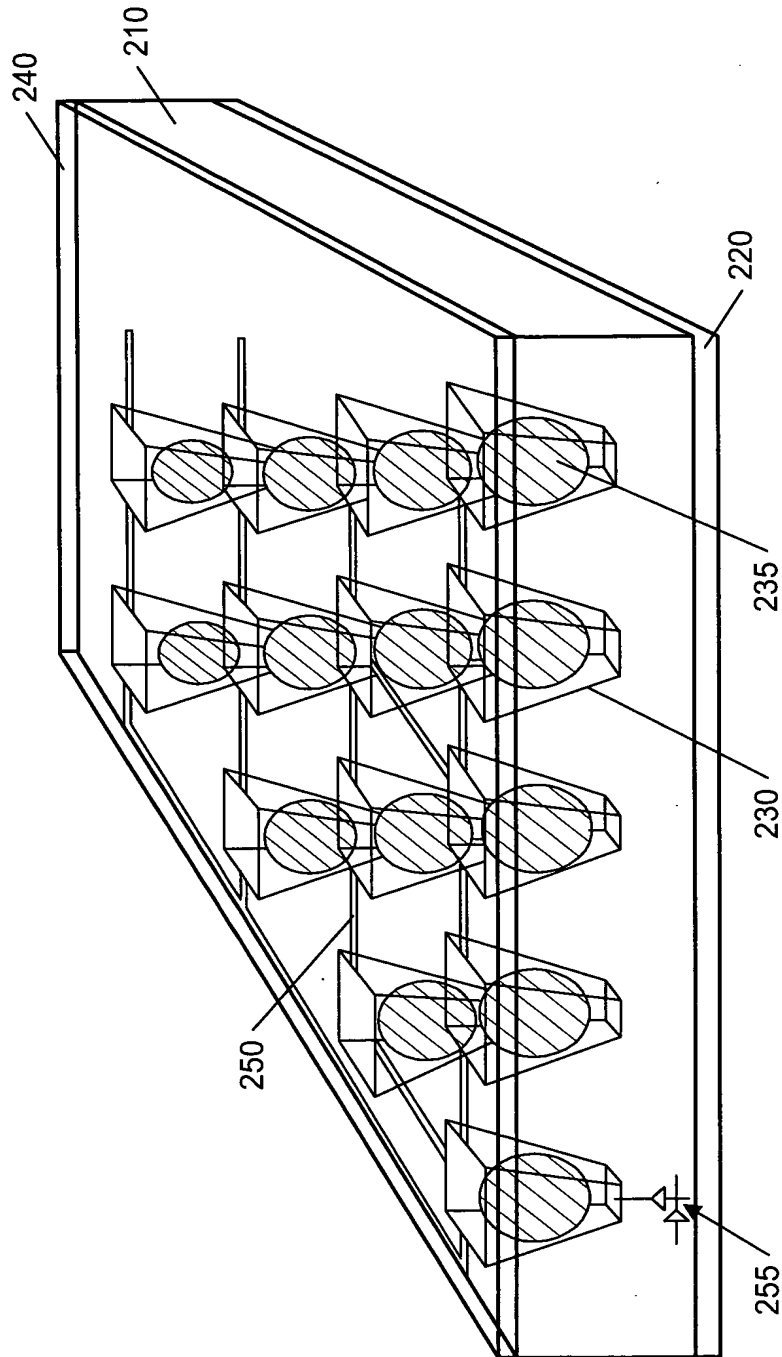


FIG. 3

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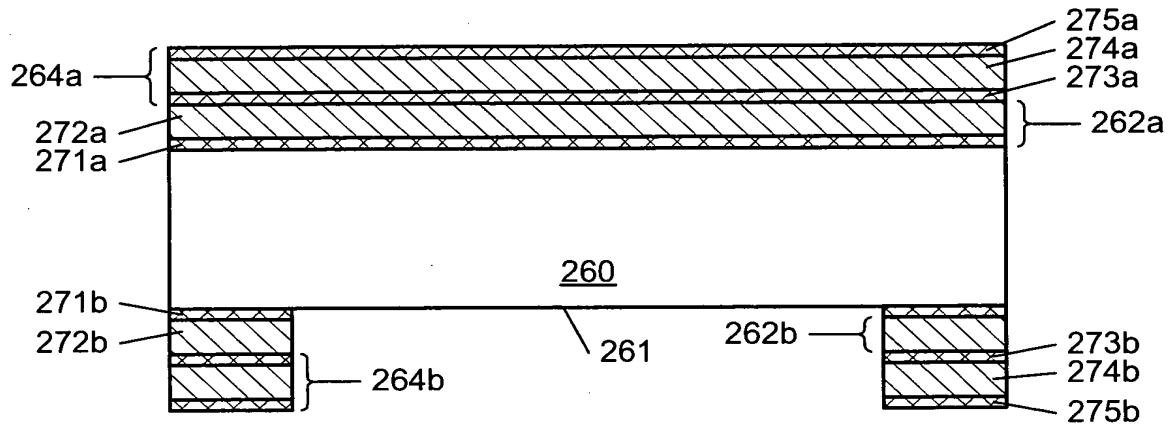


FIG. 4A

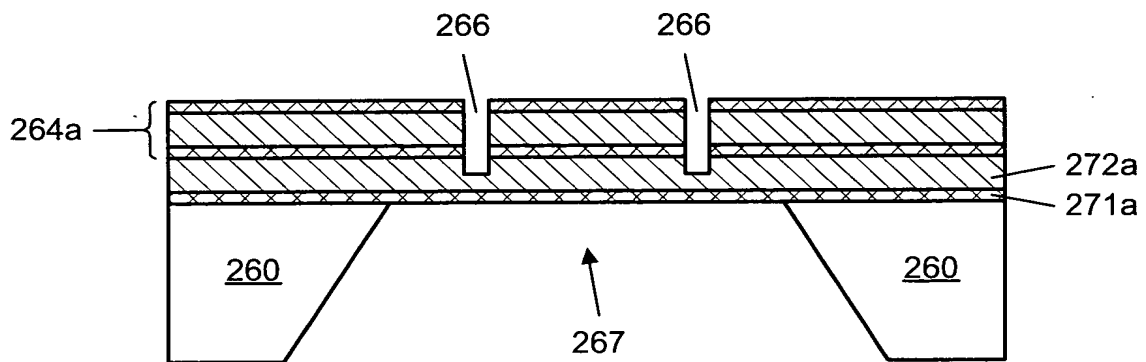


FIG. 4B

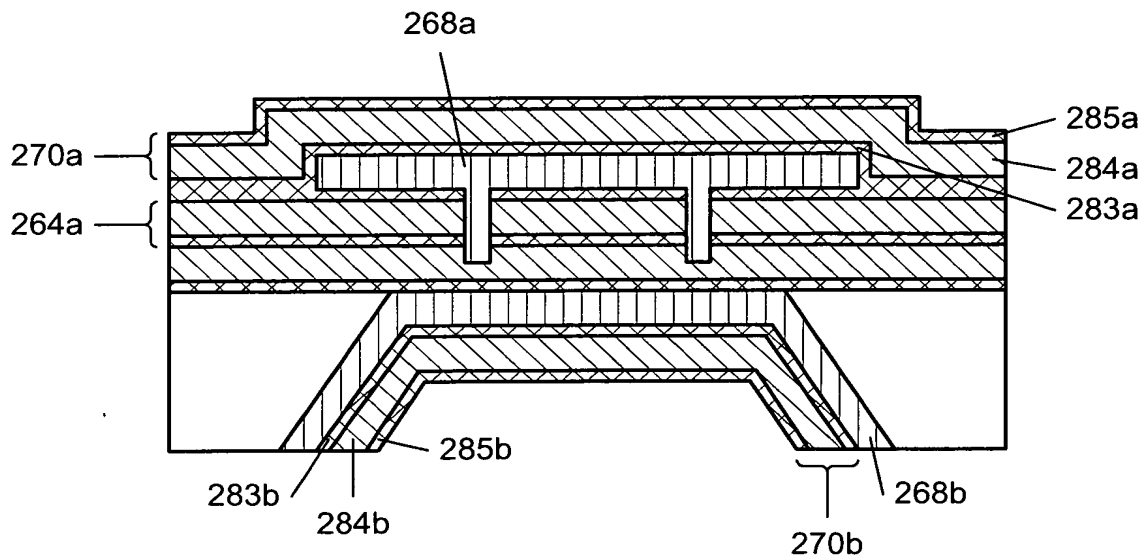


FIG. 4C

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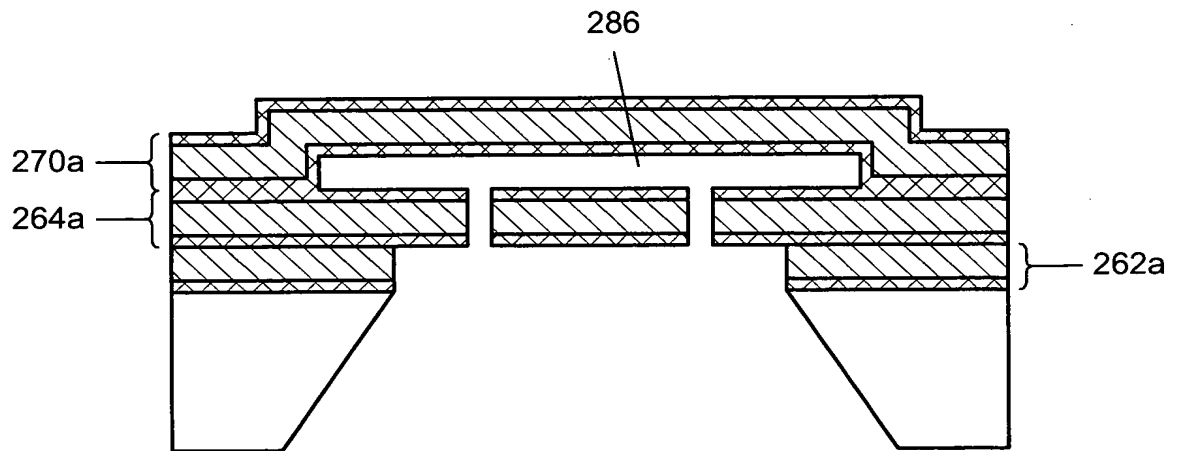


FIG. 4D

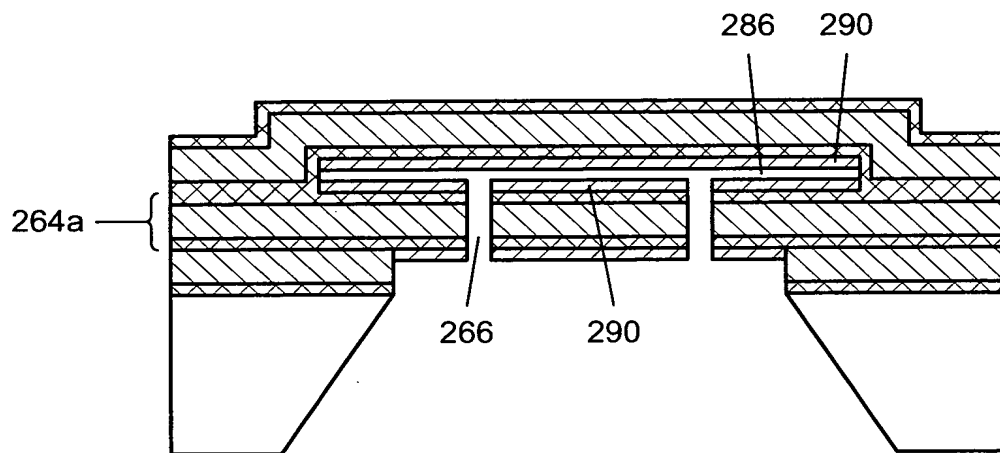


FIG. 4E

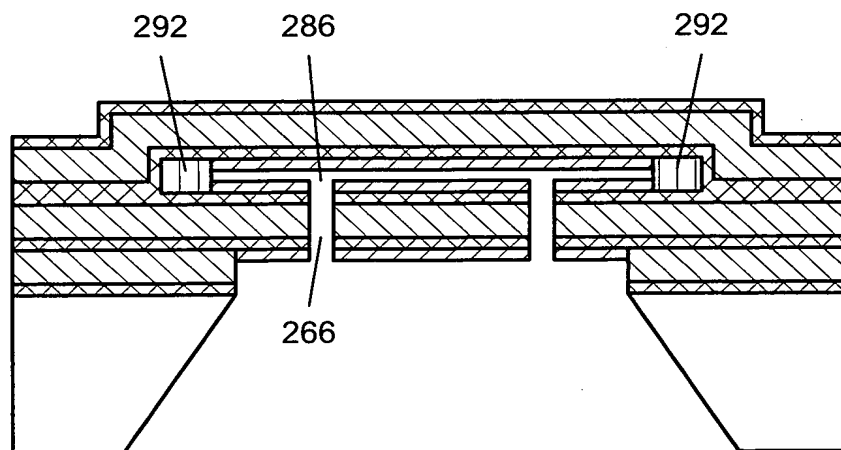


FIG. 4F

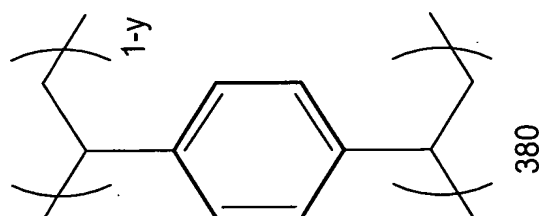
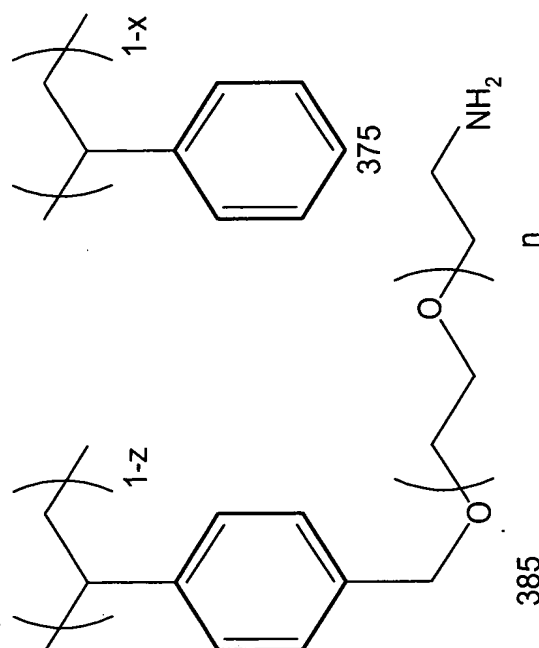


FIG. 5



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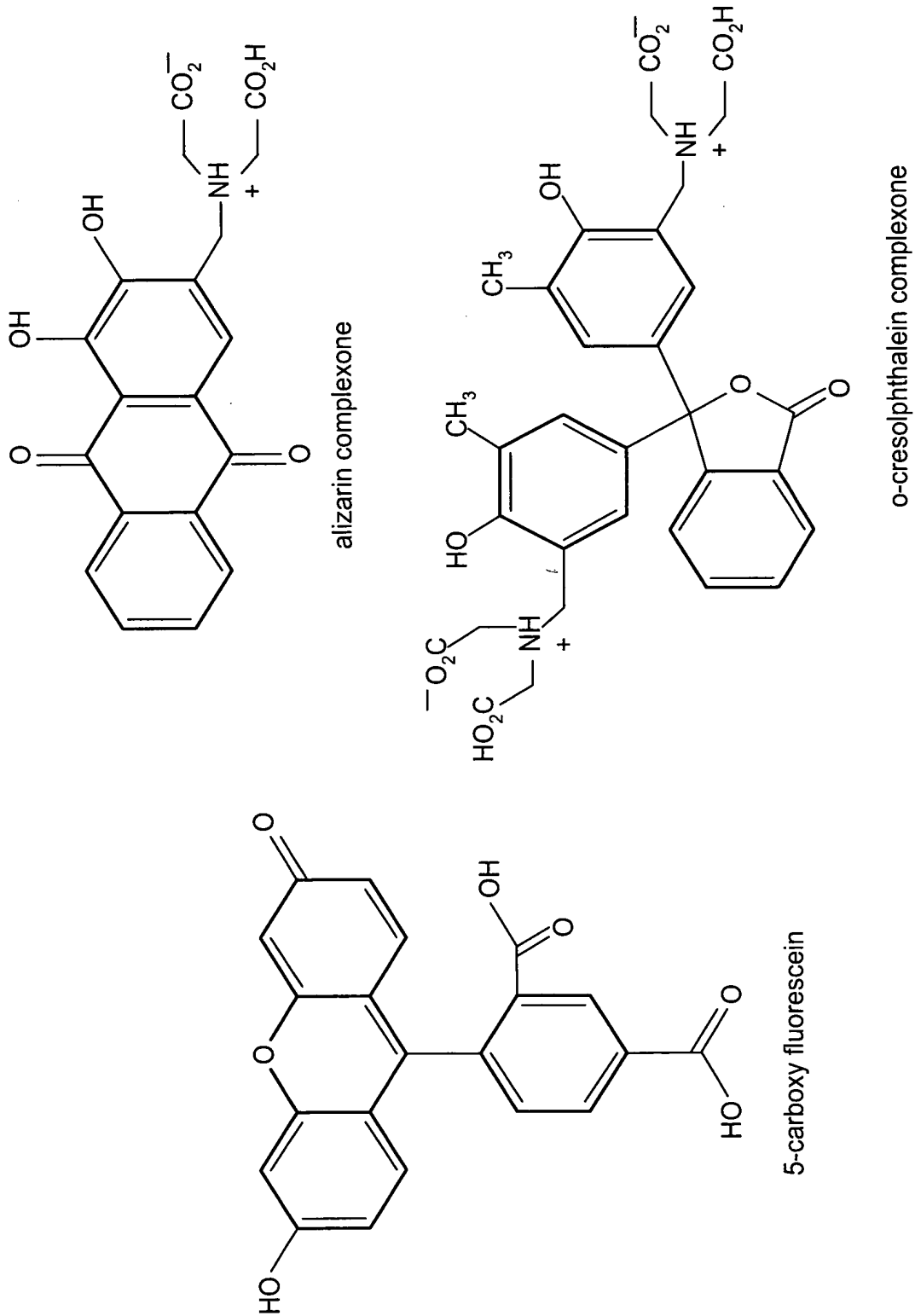


FIG. 6

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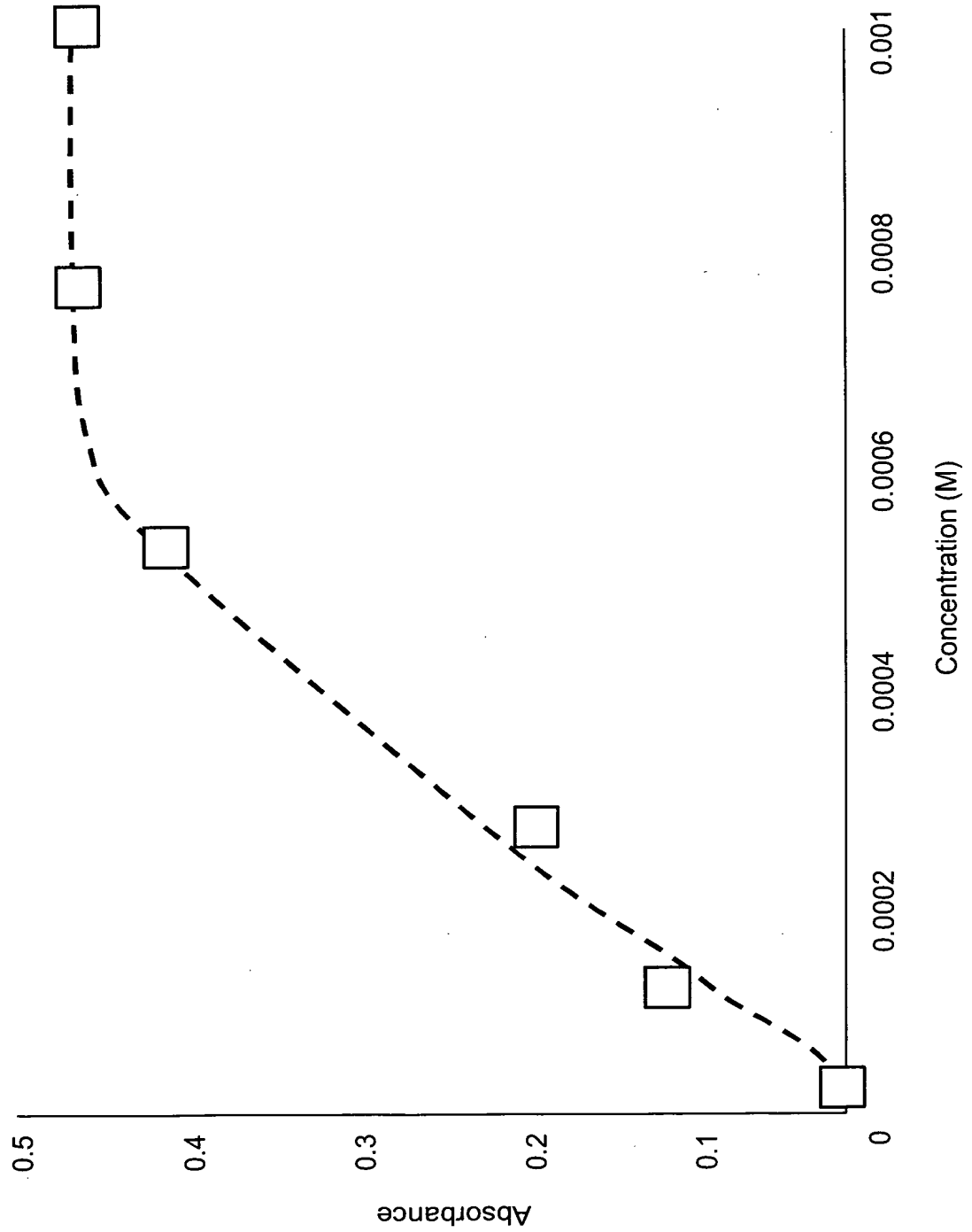
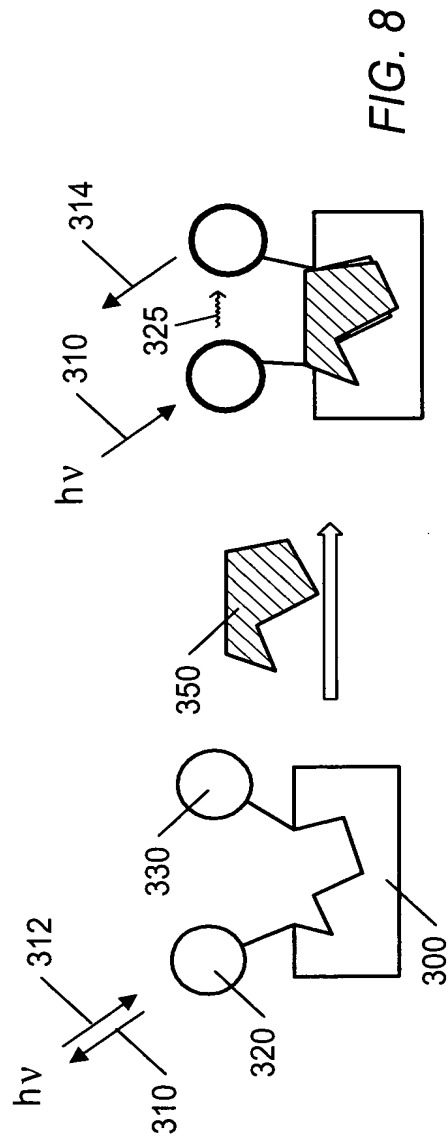


FIG. 7





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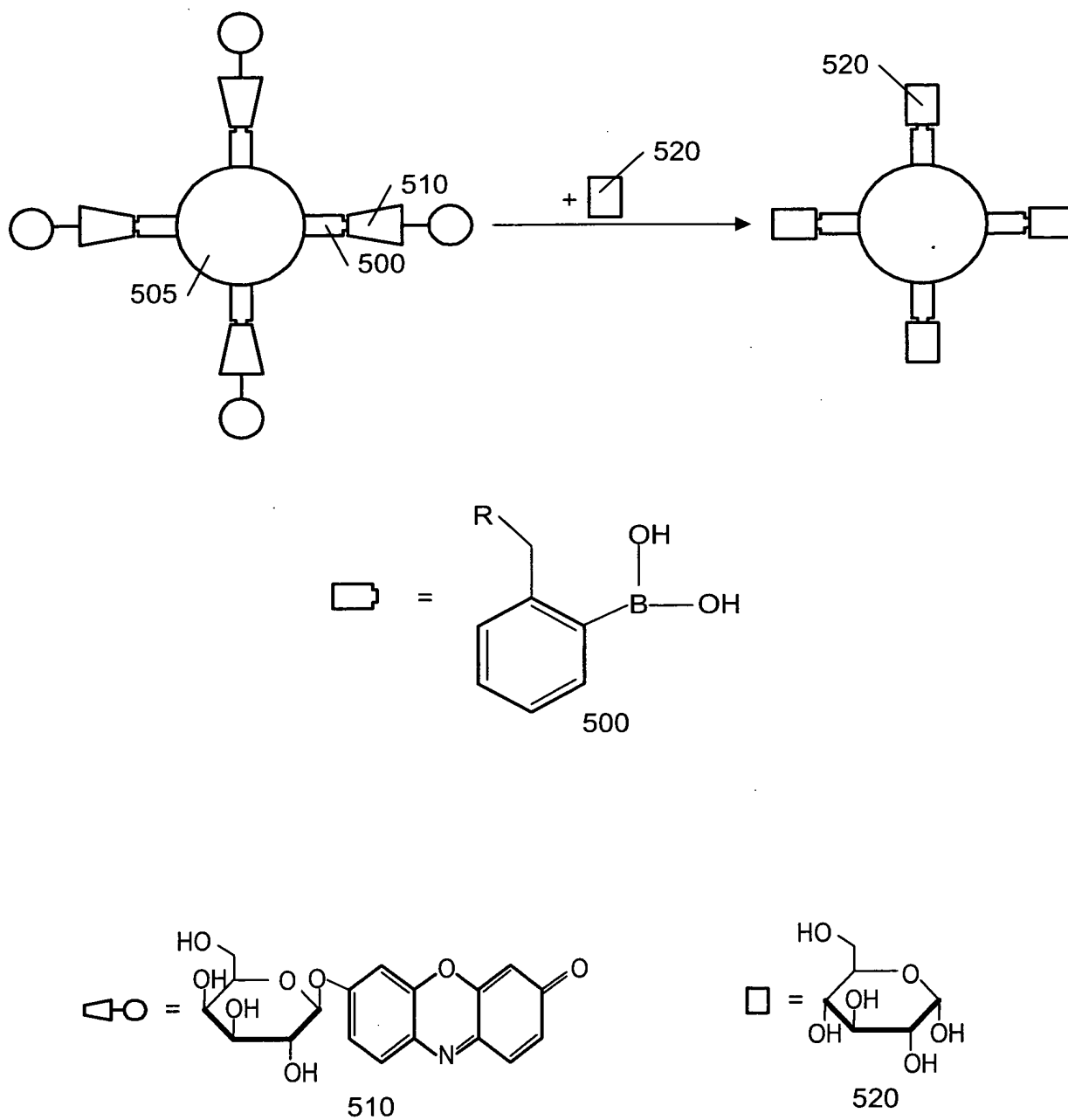
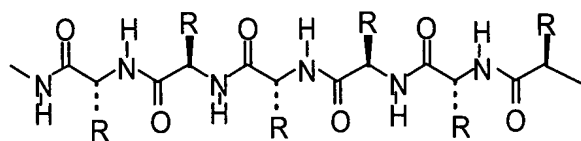
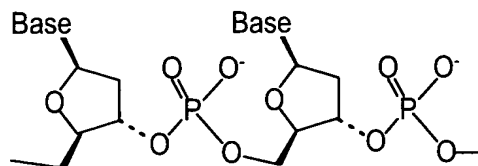


FIG. 9

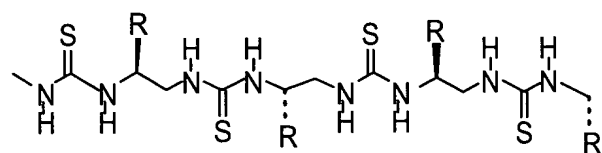
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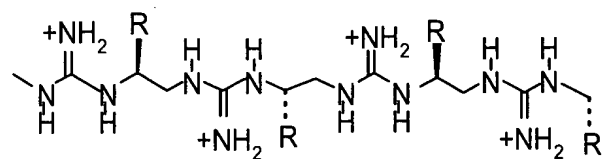
Peptides



Nucleotides



Polythioureas



Polyguanidiniums

FIG. 10

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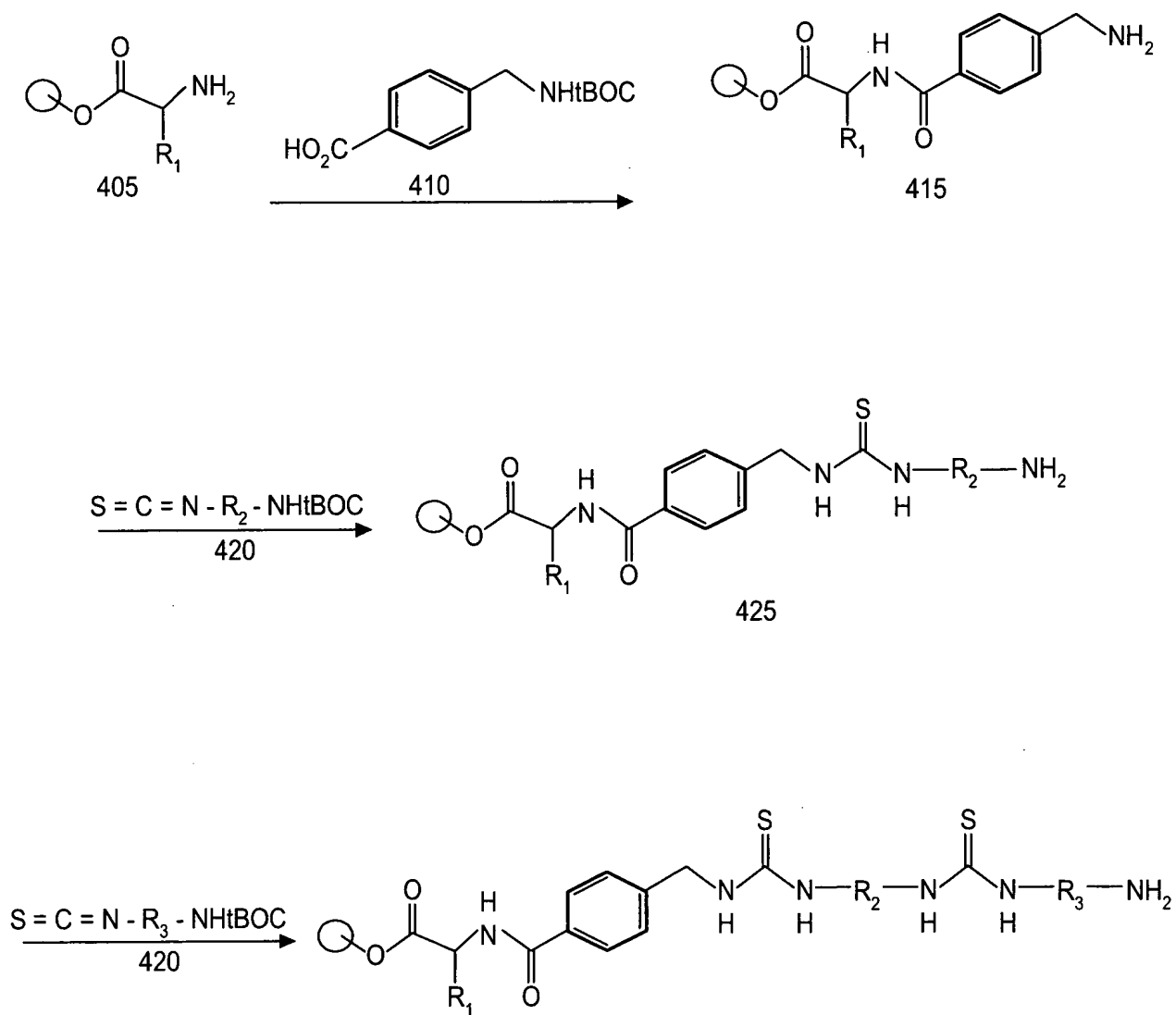


FIG. 11

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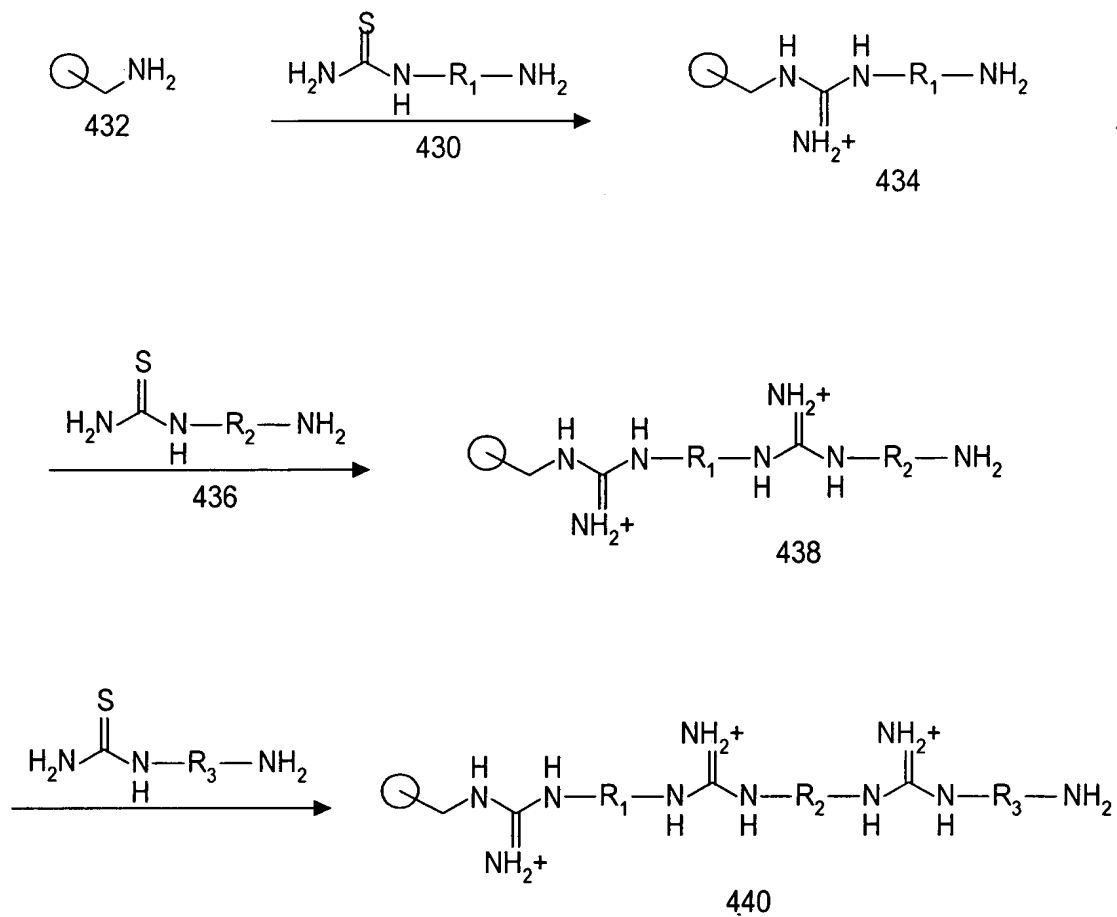


FIG. 12

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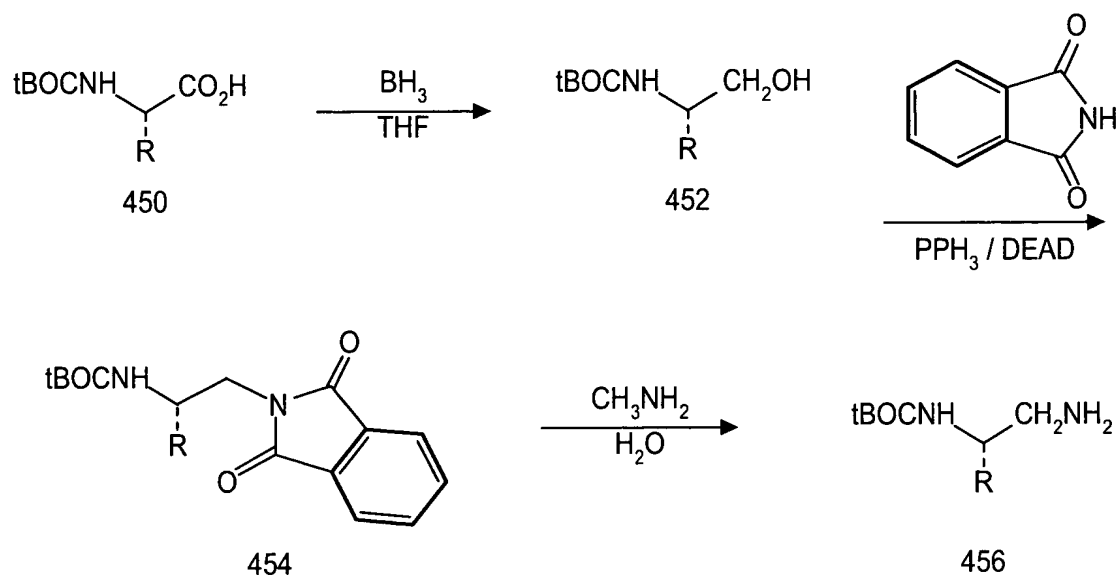


FIG. 13

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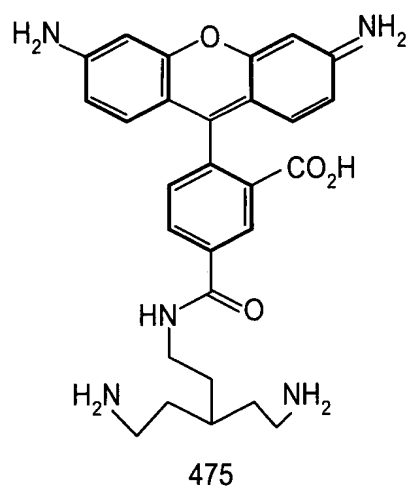
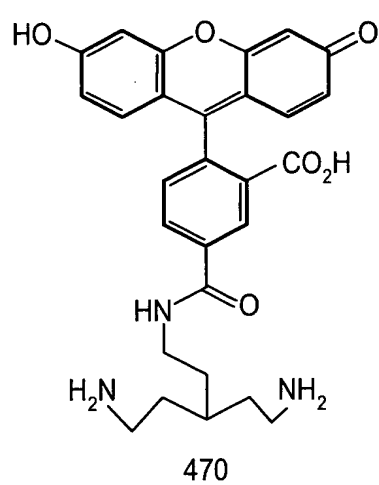


FIG. 14

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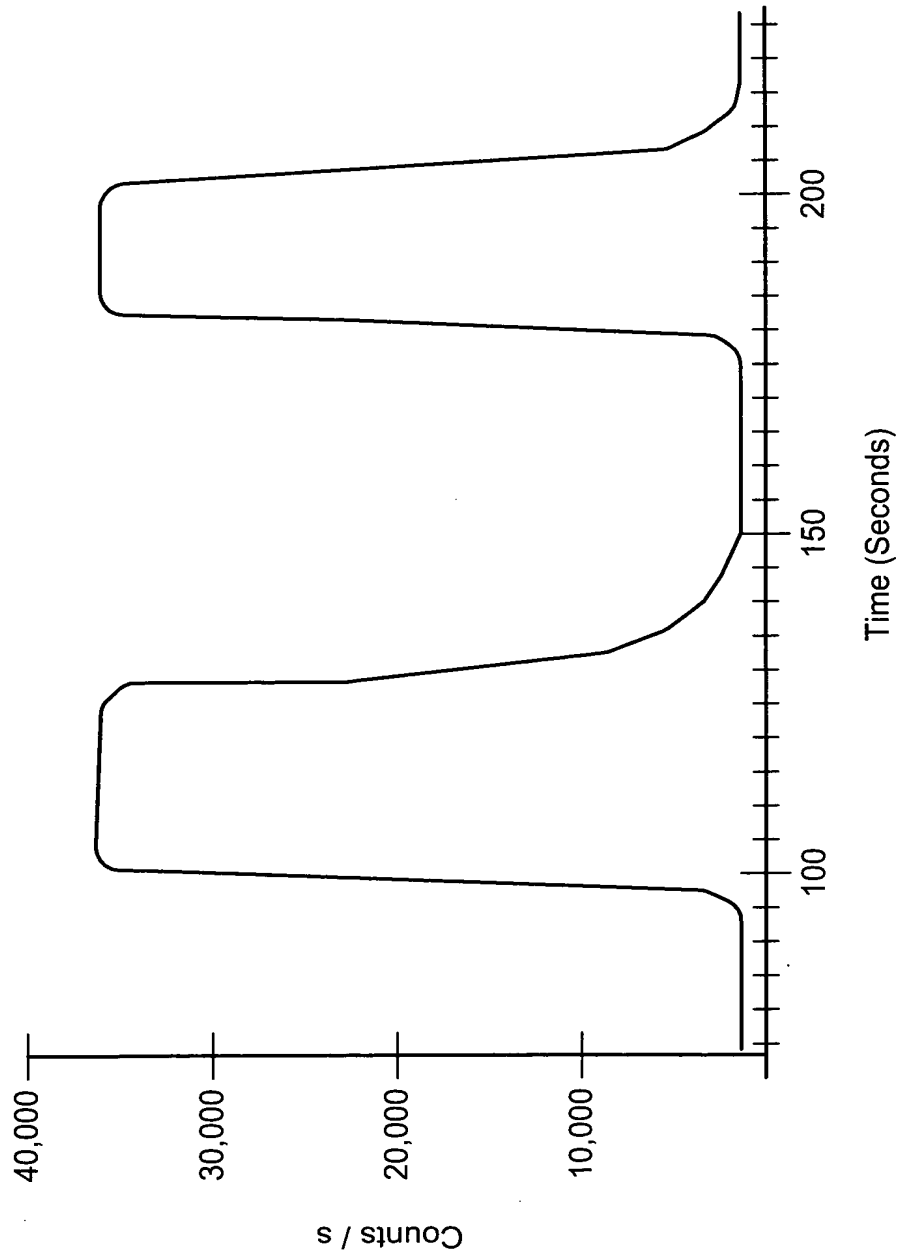


FIG. 15



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RESIN: pH      Ion		Blank	Alizarin	o-Cresol-phthalein	Fluorescein	Alizarin-Ce <sup>3+</sup> complex
2	none					
2	Ca <sup>2+</sup>					
7	none					
7	Ca <sup>2+</sup>					
7	F <sup>-</sup>					
12	none					
12	Ca <sup>2+</sup>					
12	F <sup>-</sup>					

FIG. 16

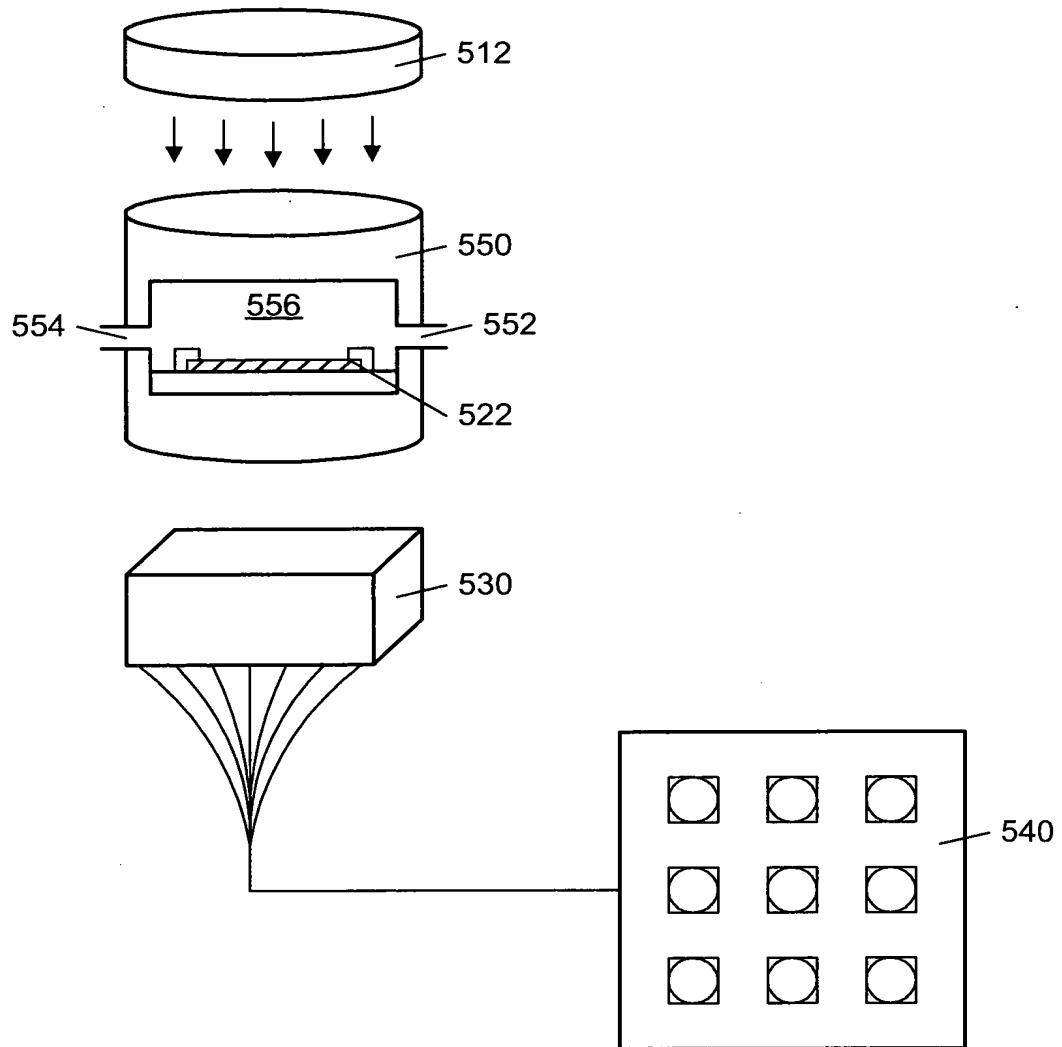


FIG. 17

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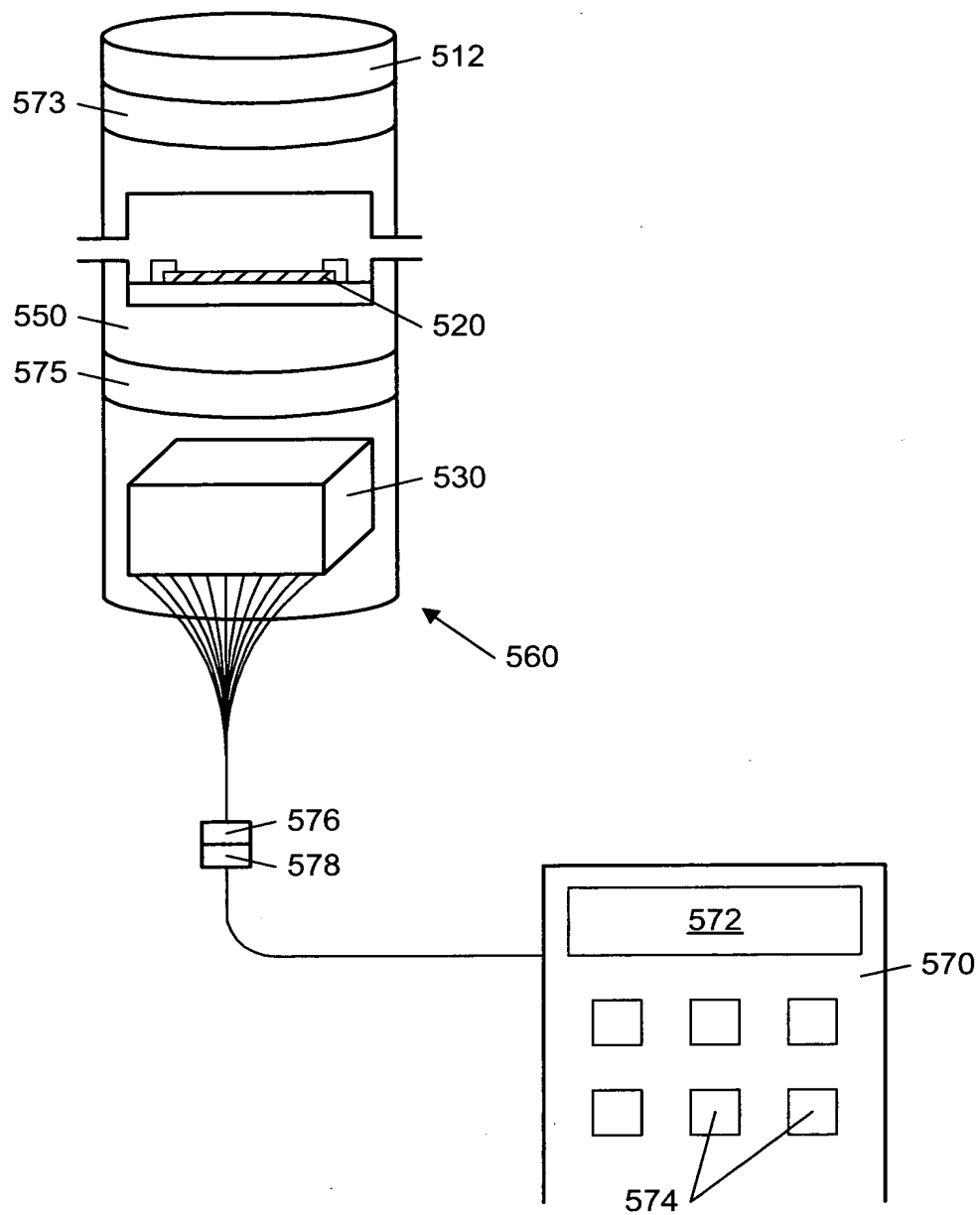


FIG. 18

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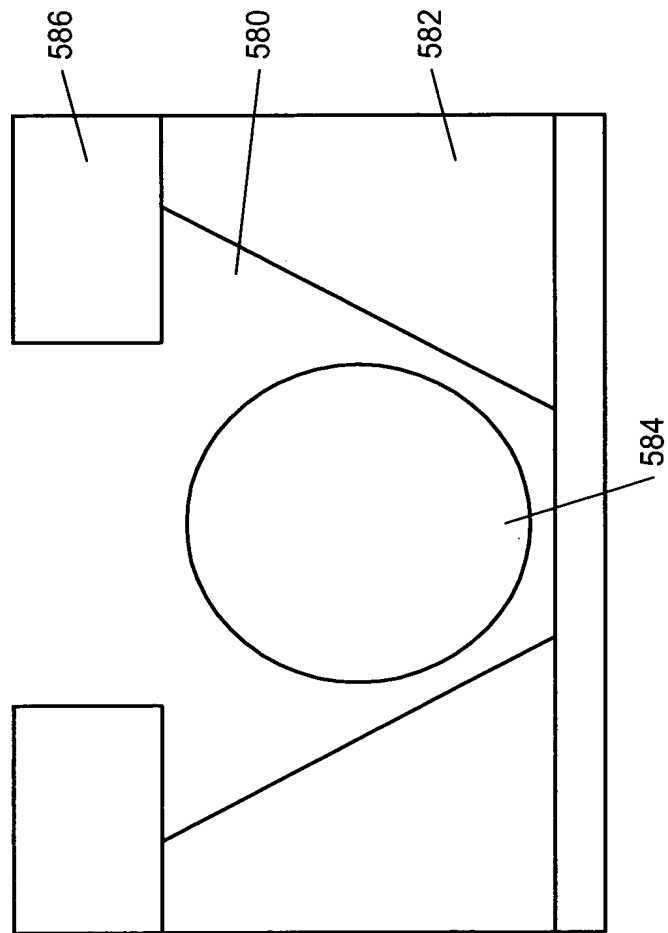


FIG. 19

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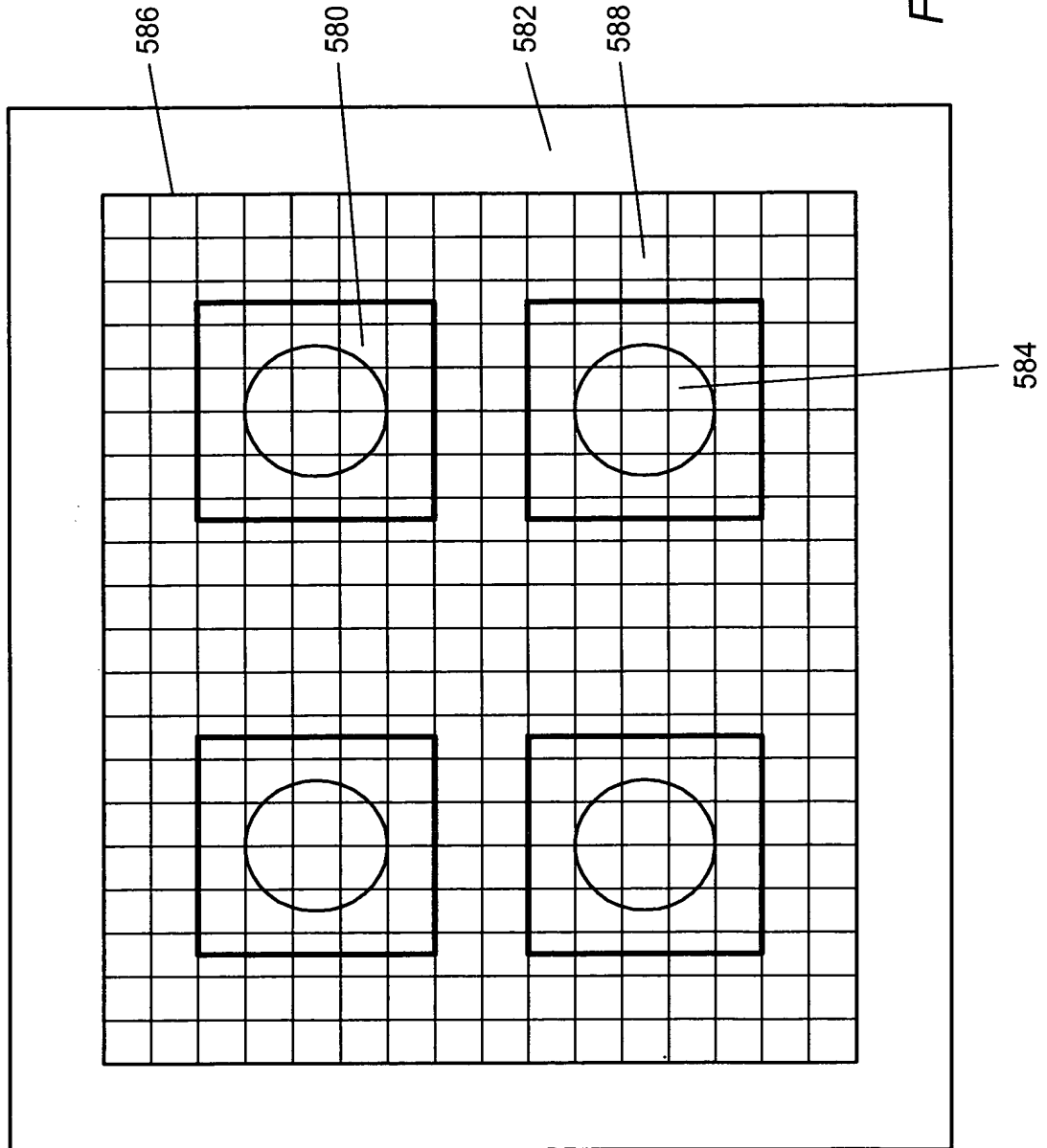


FIG. 20

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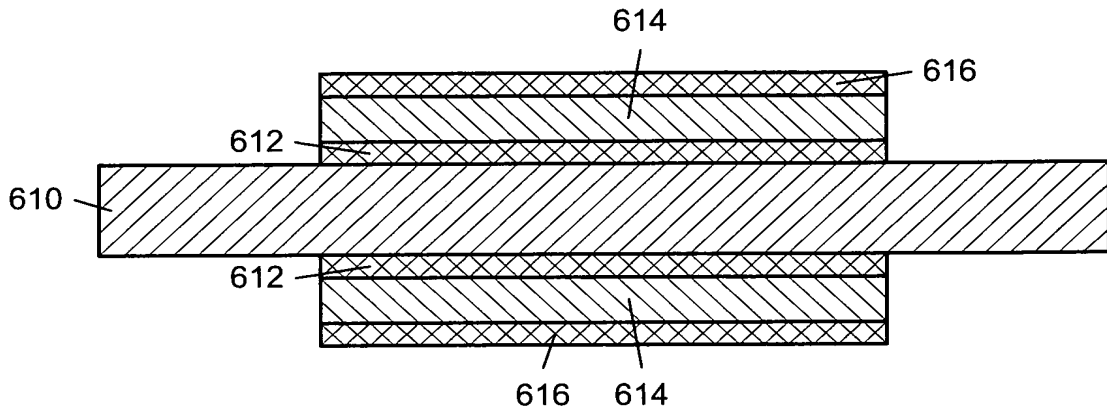


FIG. 21A

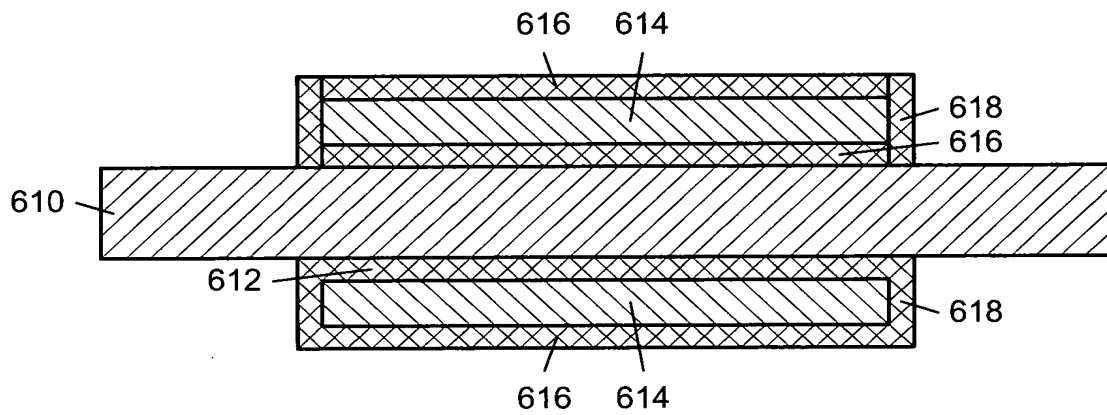


FIG. 21B

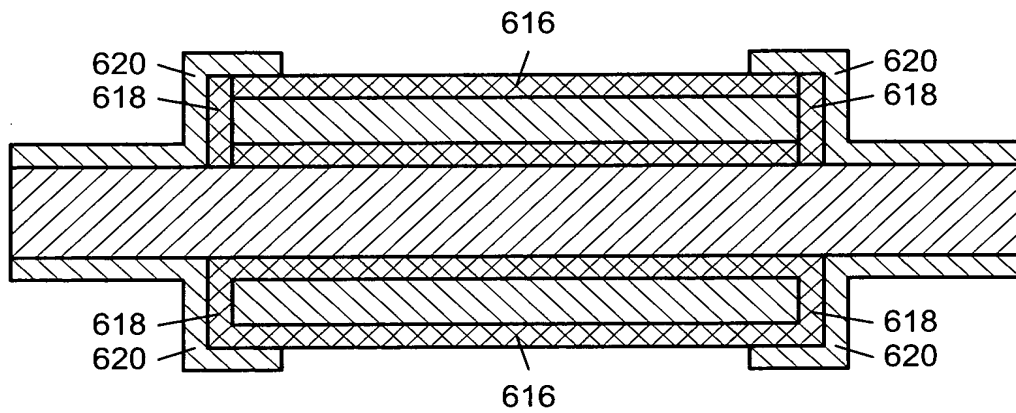


FIG. 21C

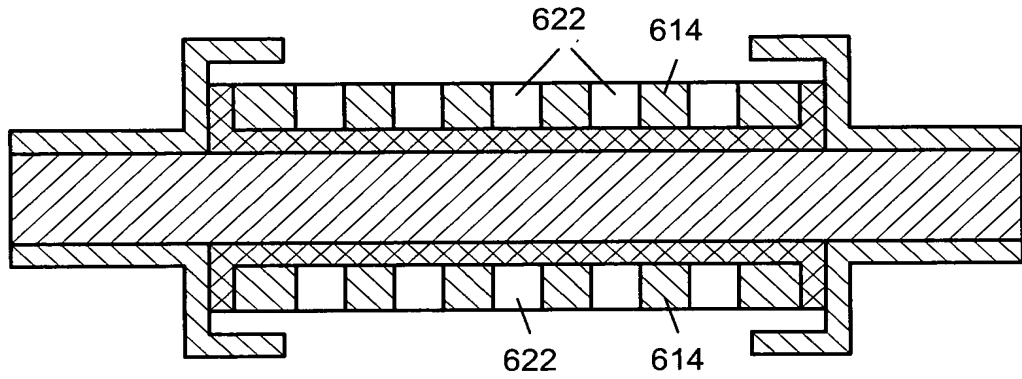


FIG. 21D

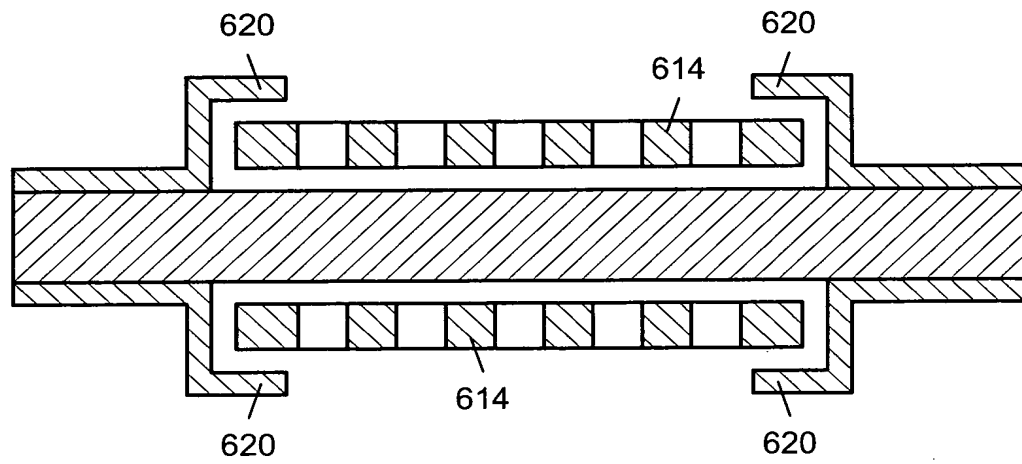


FIG. 21E

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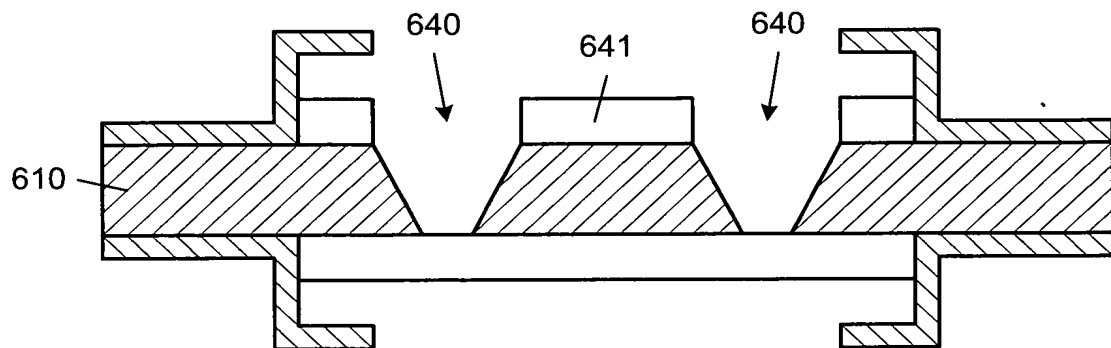


FIG. 21F

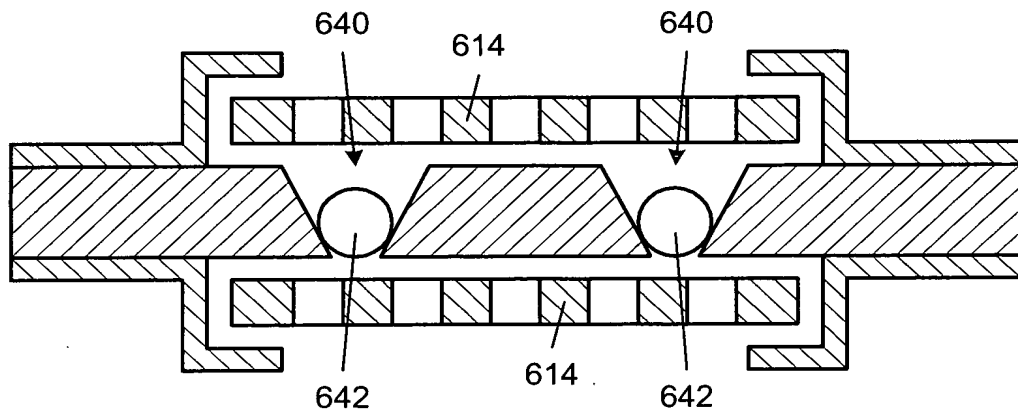


FIG. 21G



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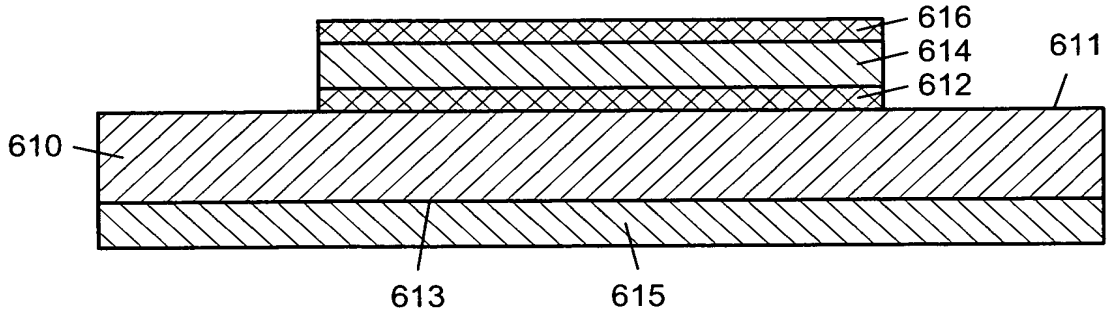


FIG. 22A

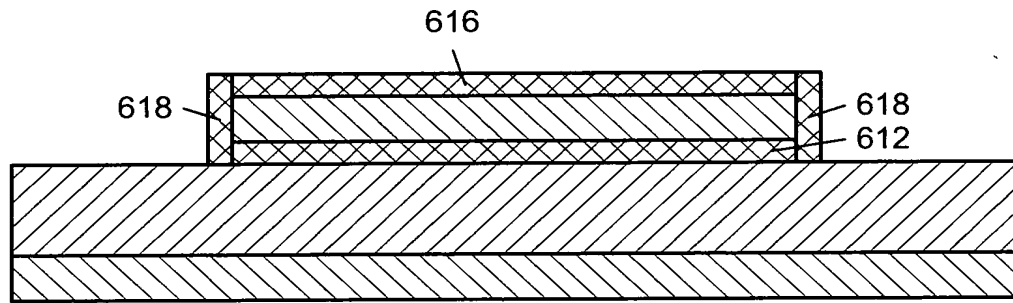


FIG. 22B

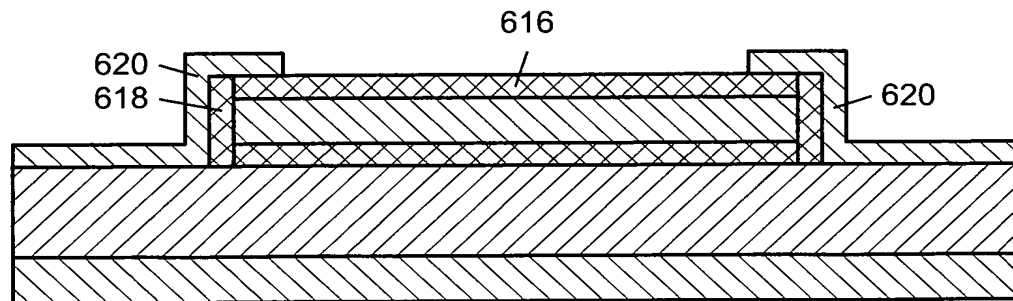


FIG. 22C

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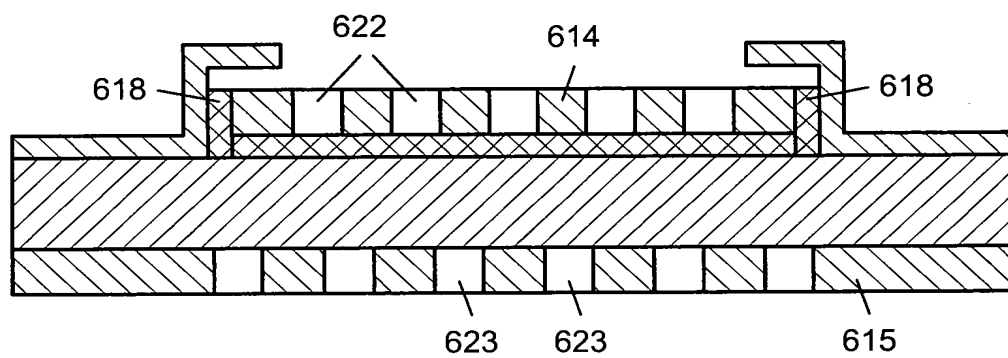


FIG. 22D

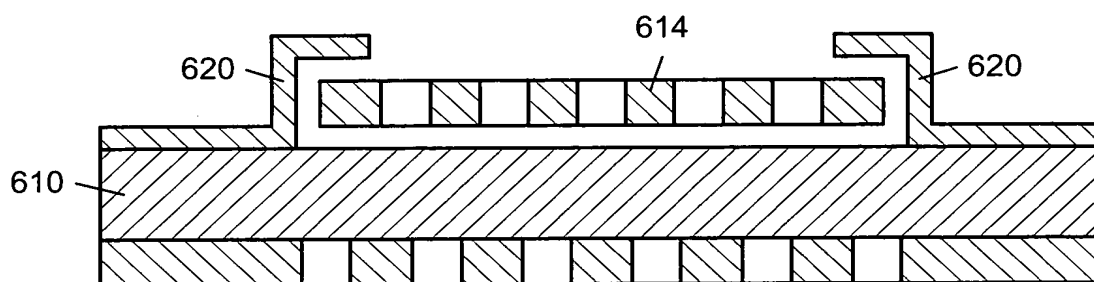


FIG. 22E

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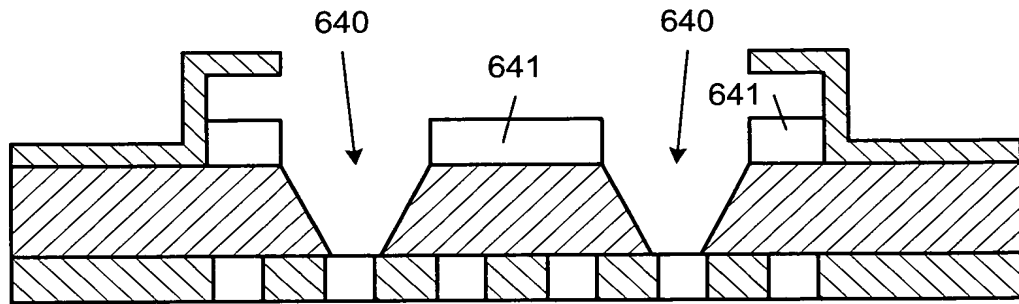


FIG. 22F

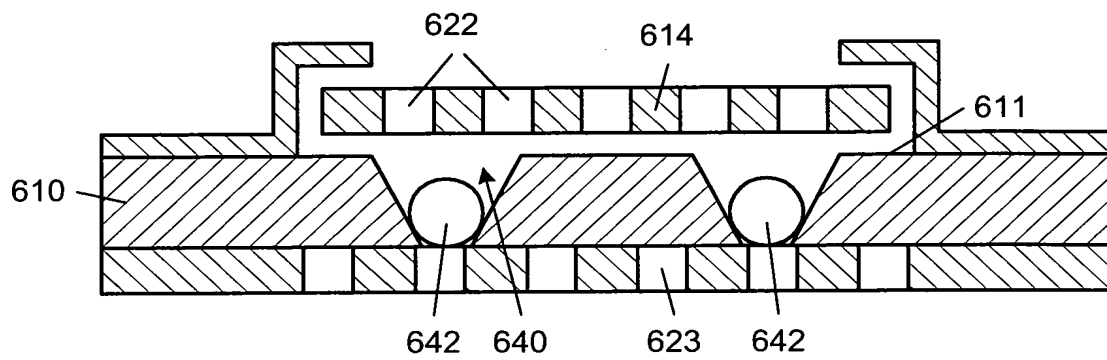


FIG. 22G

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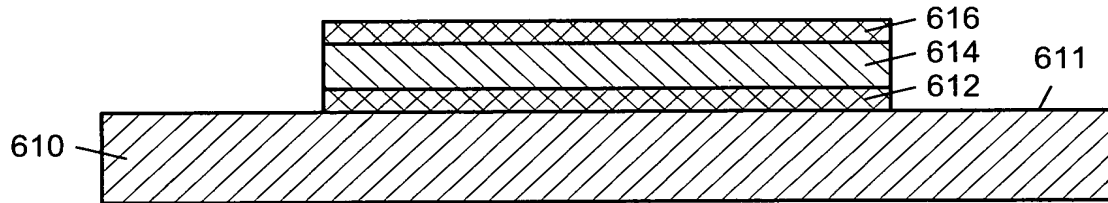


FIG. 23A

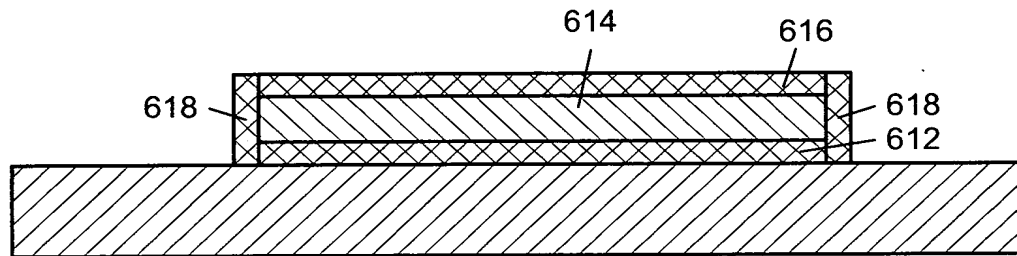


FIG. 23B

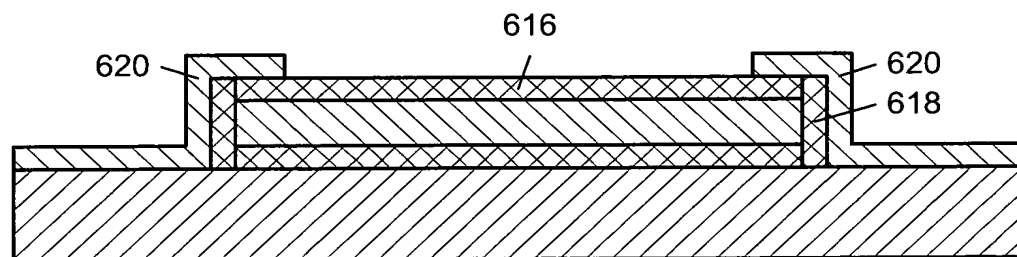


FIG. 23C

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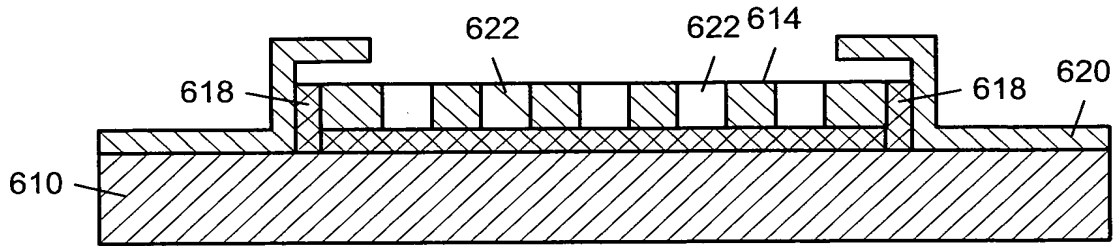


FIG. 23D

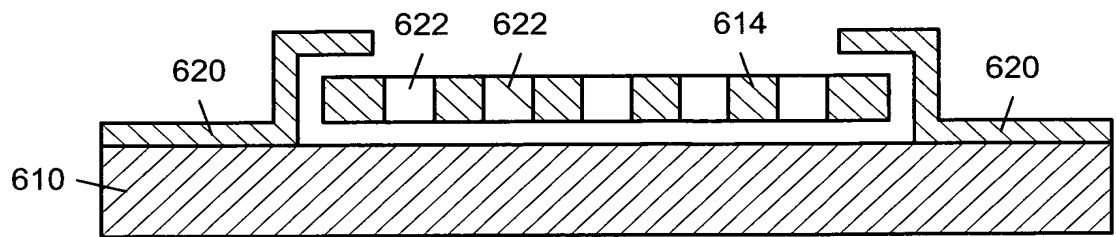


FIG. 23E

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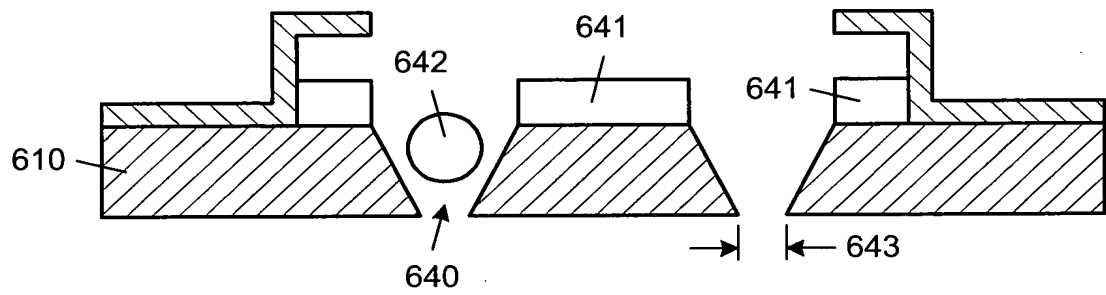


FIG. 23F

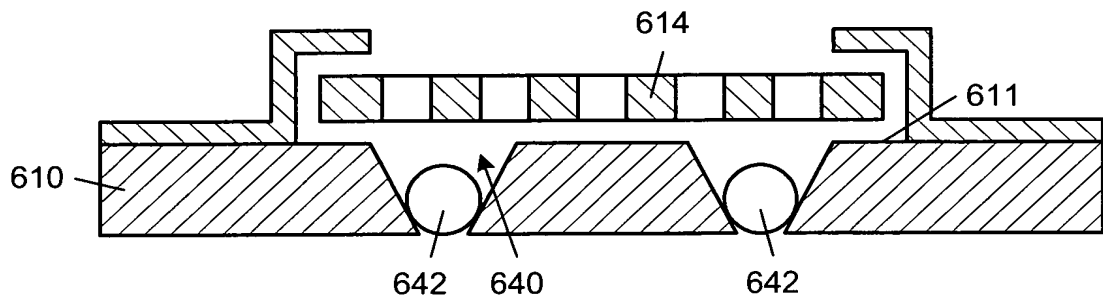


FIG. 23G

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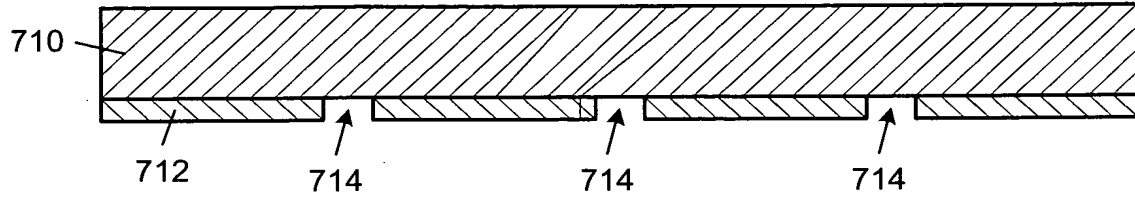


FIG. 24A

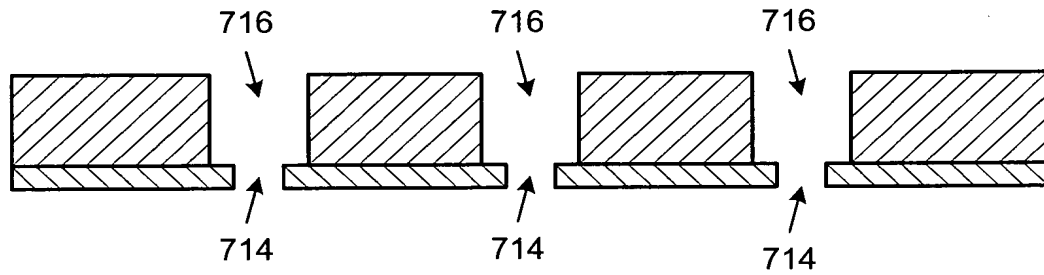


FIG. 24B

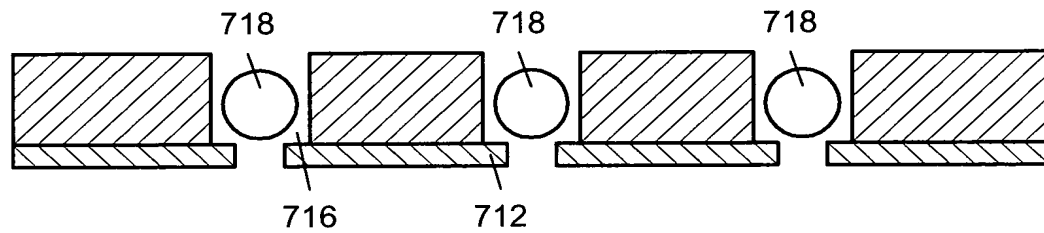


FIG. 24C

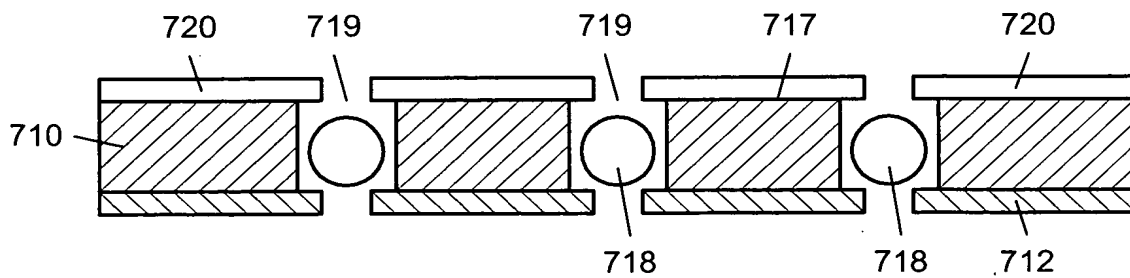


FIG. 24D

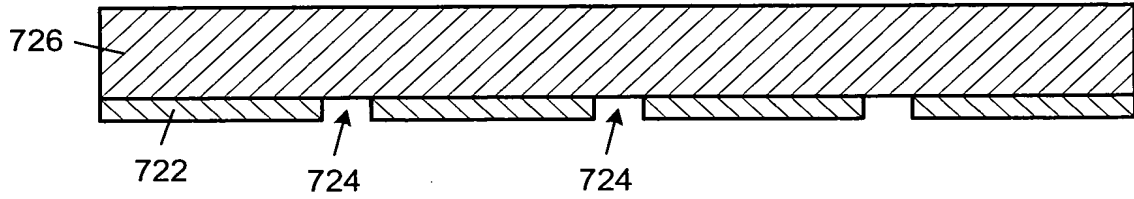


FIG. 25A

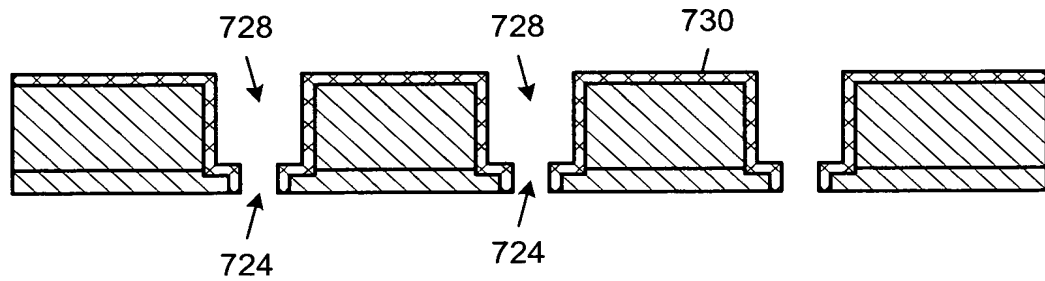


FIG. 25B

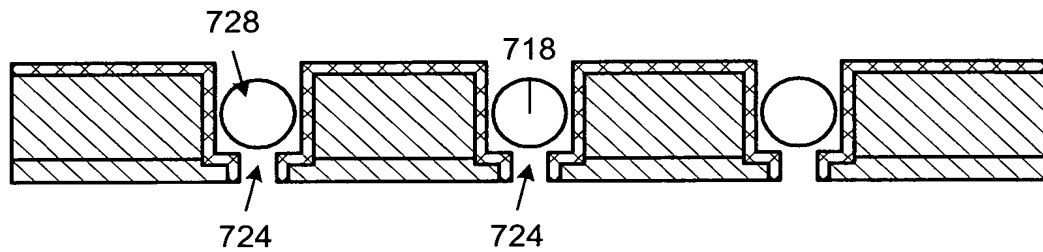


FIG. 25C

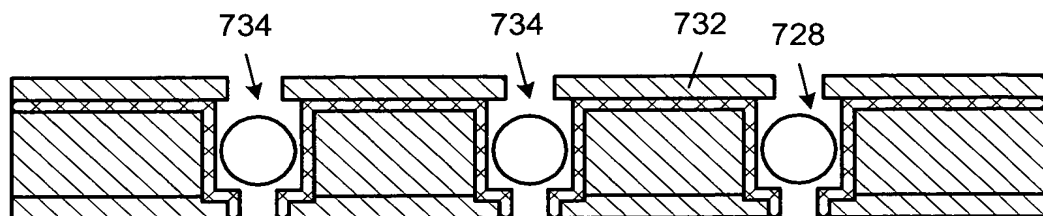


FIG. 25D



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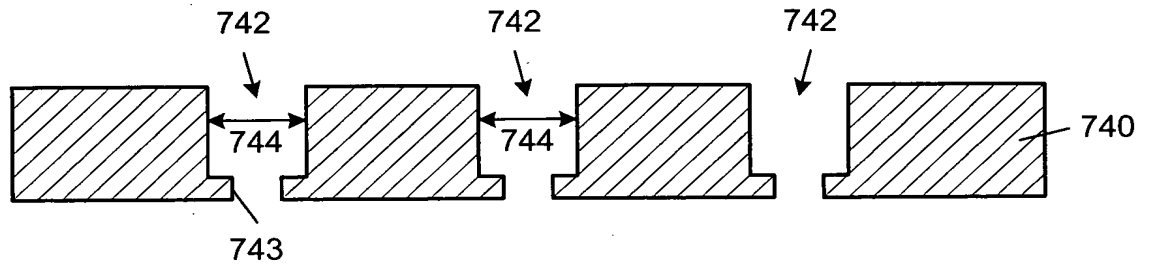


FIG. 26A

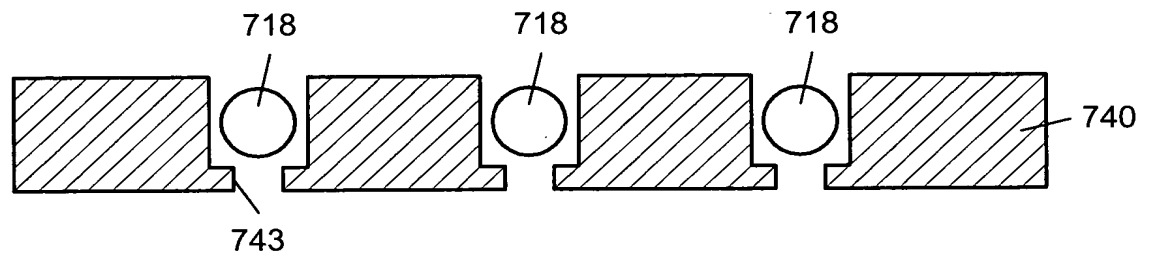


FIG. 26B

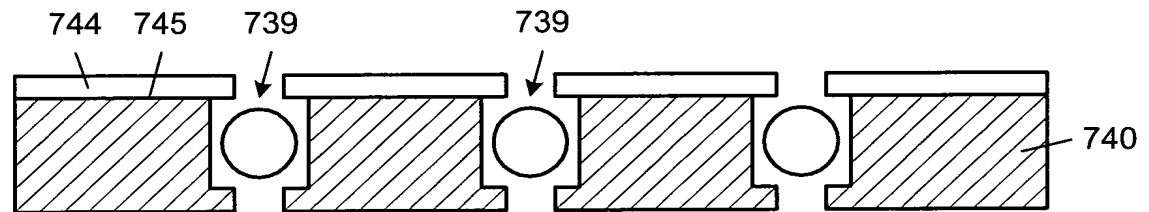


FIG. 26C

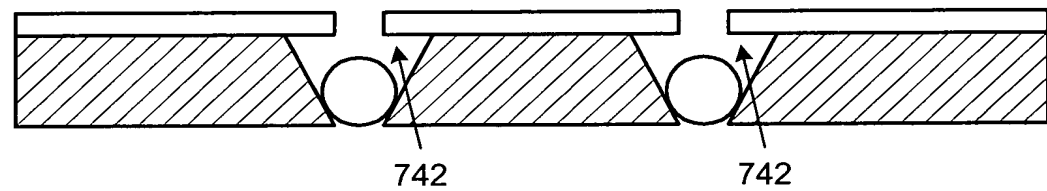


FIG. 26D

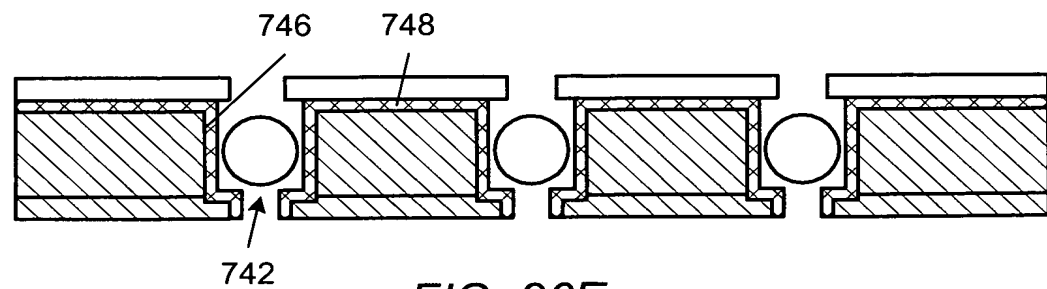


FIG. 26E

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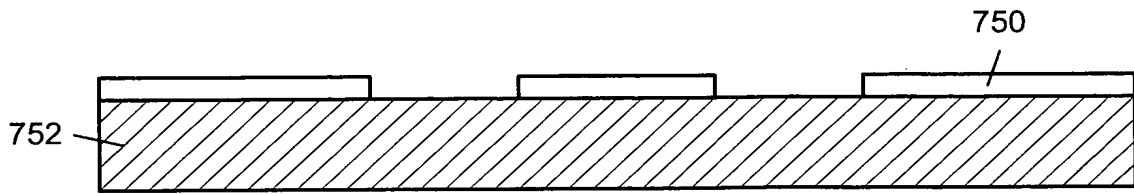


FIG. 27A

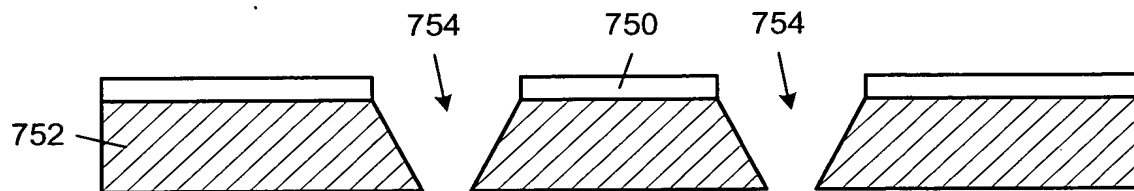


FIG. 27B

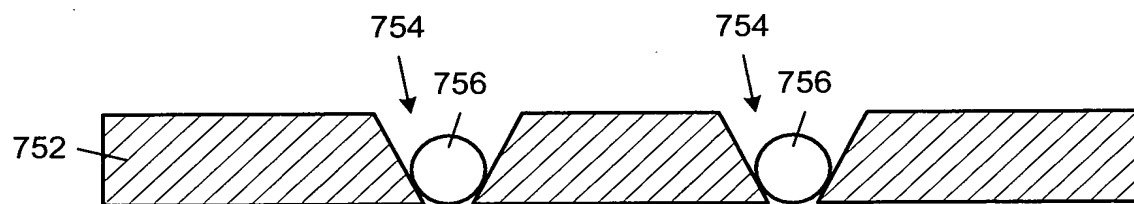


FIG. 27C

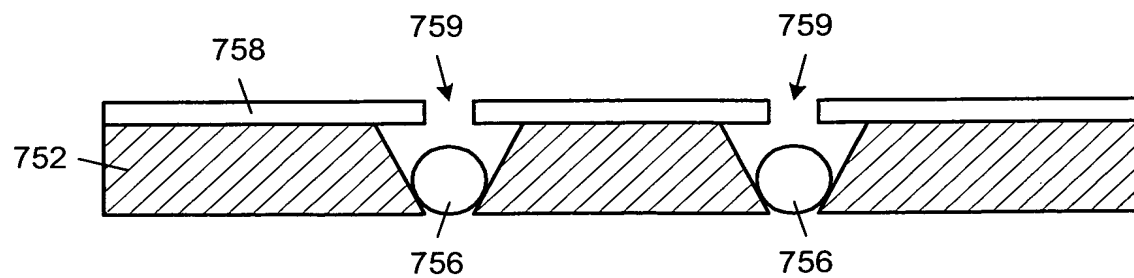


FIG. 27D

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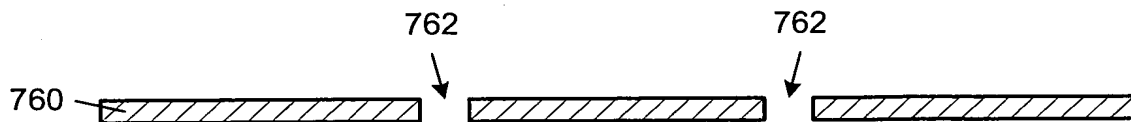


FIG. 28A

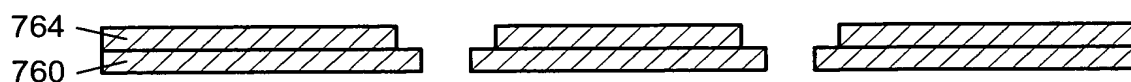


FIG. 28B

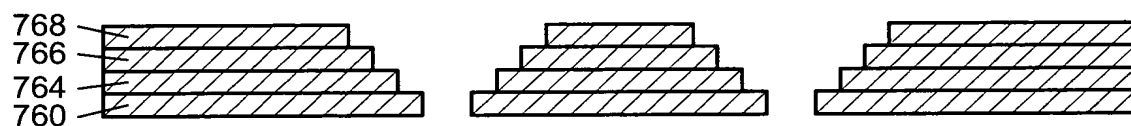


FIG. 28C

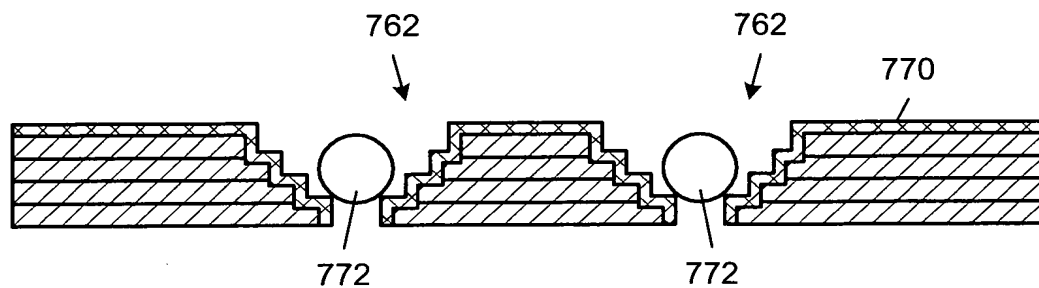


FIG. 28D

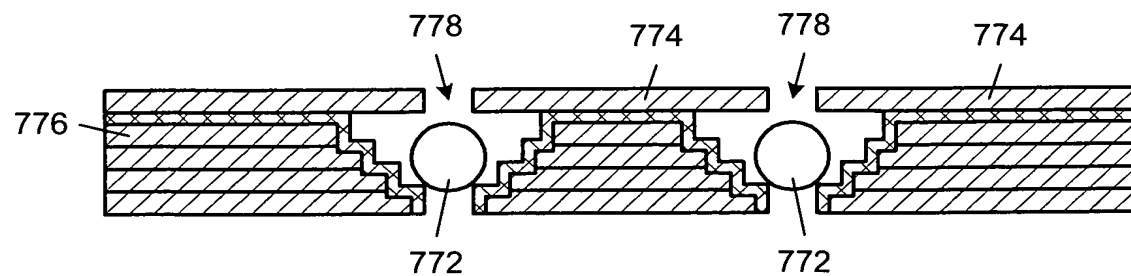


FIG. 28E

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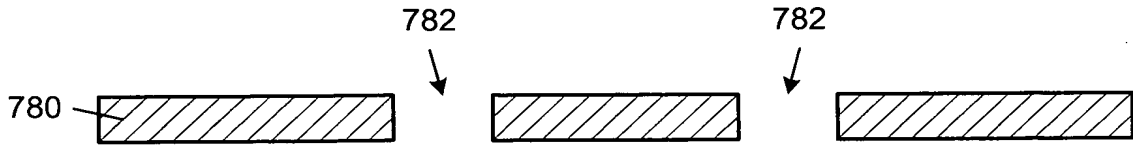


FIG. 29A

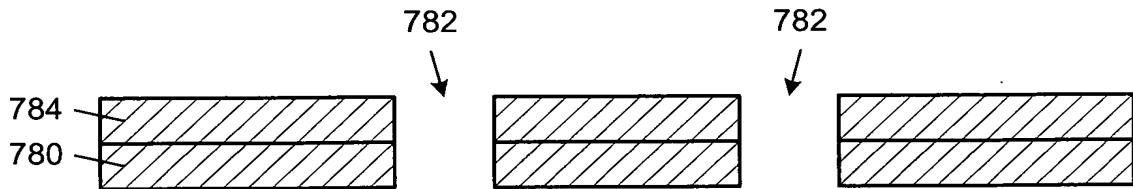


FIG. 29B

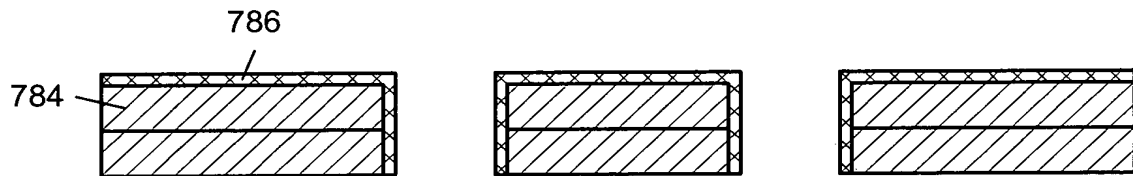


FIG. 29C

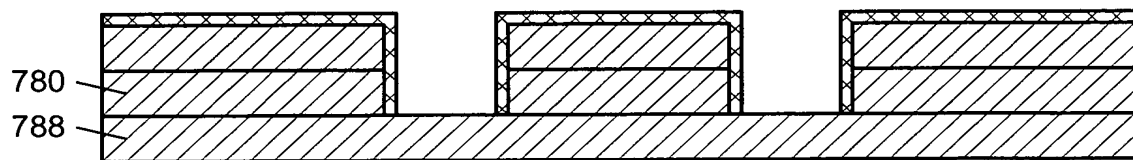


FIG. 29D

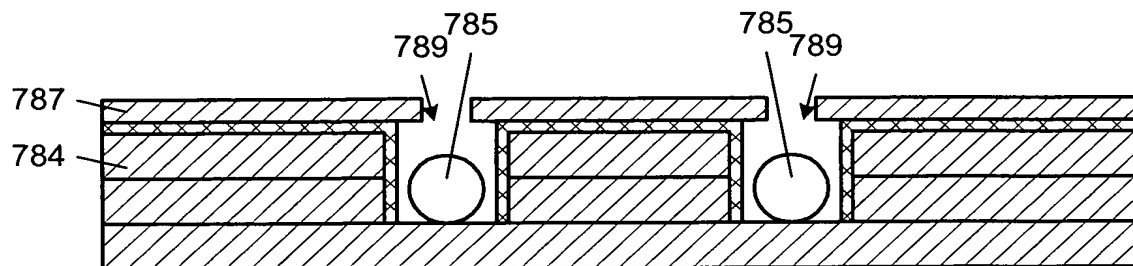


FIG. 29E

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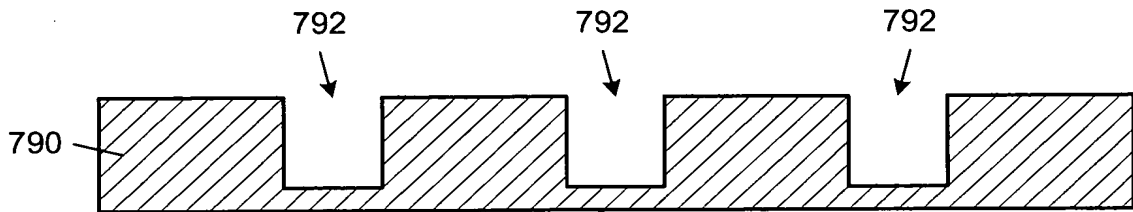


FIG. 30A

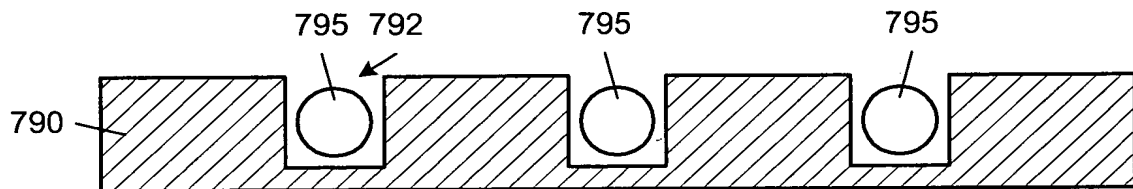


FIG. 30B

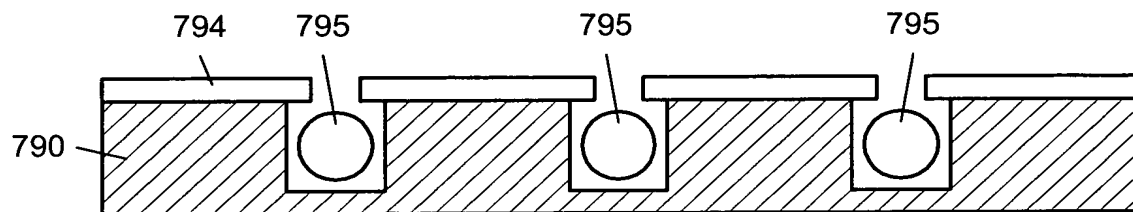


FIG. 30C

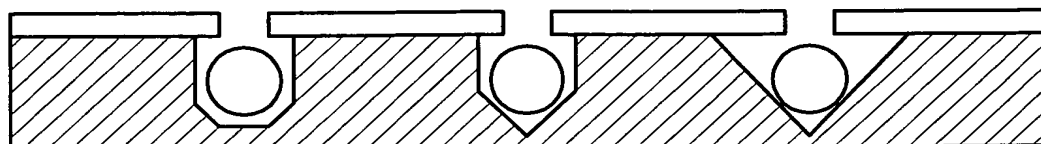


FIG. 30D

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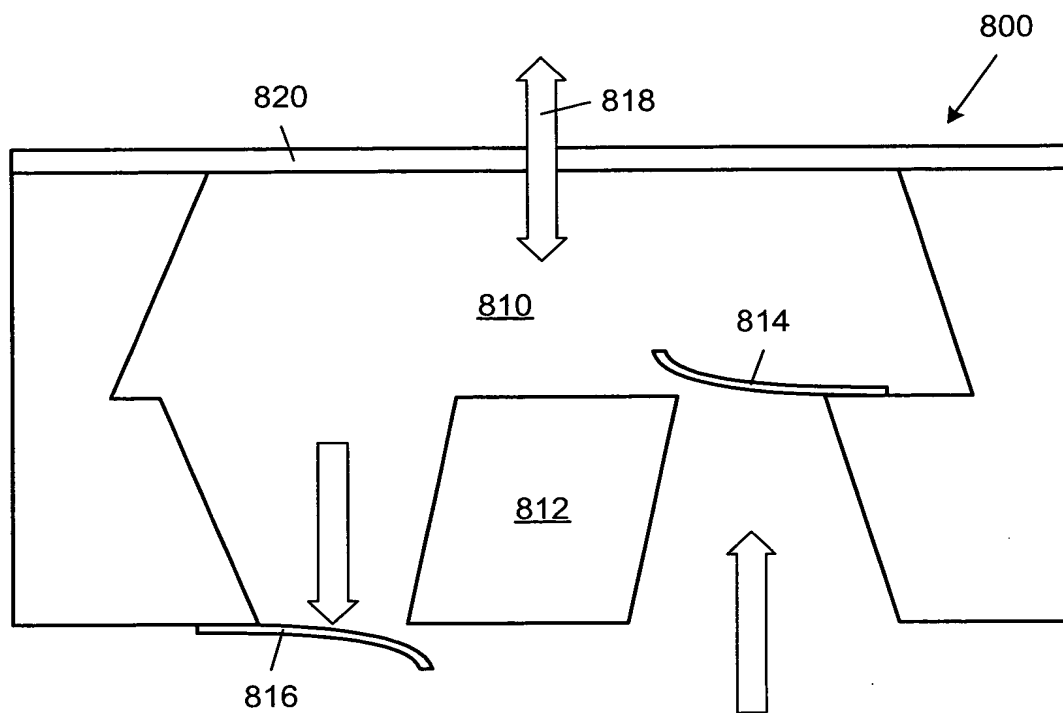


FIG. 31

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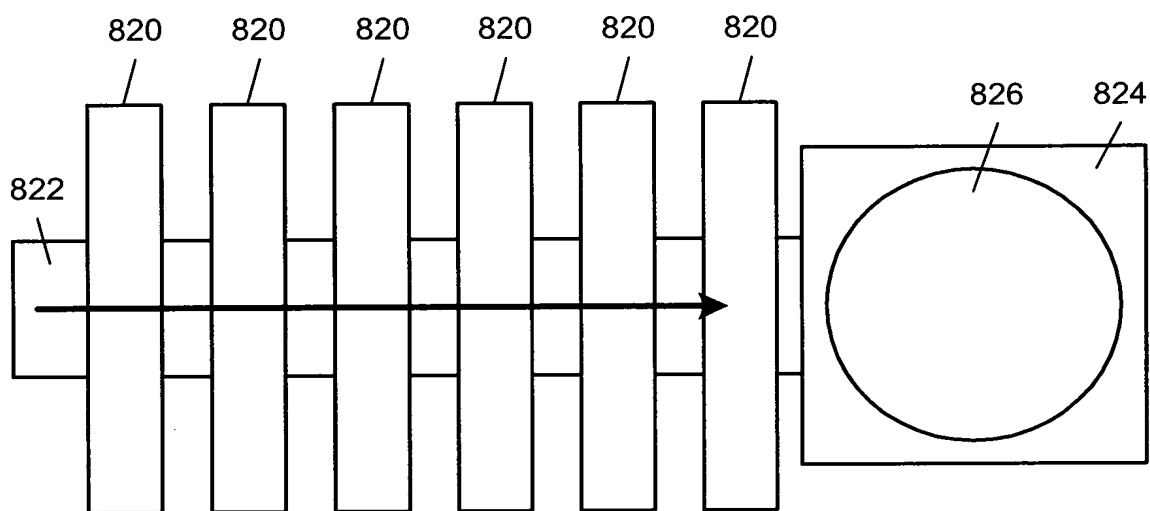


FIG. 32

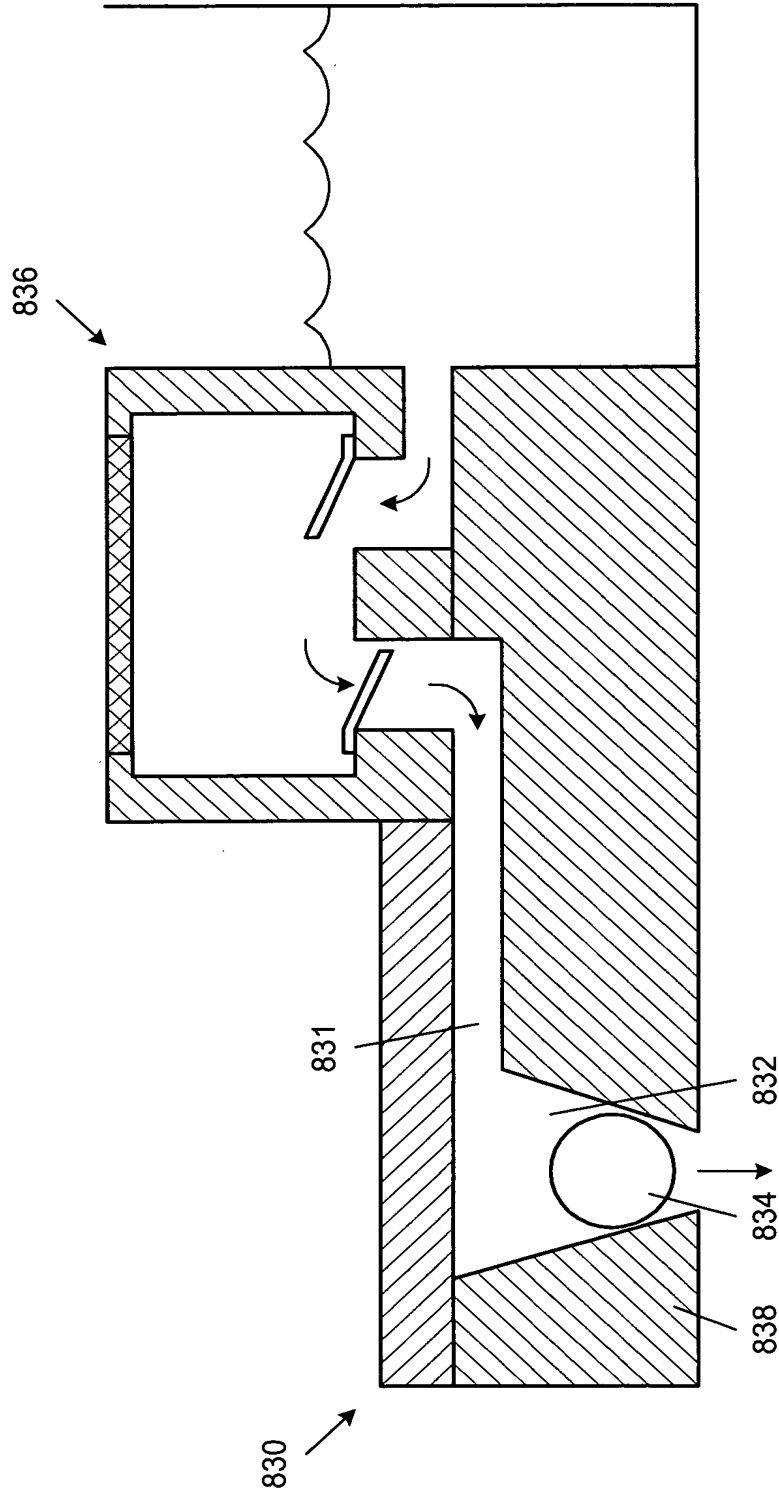


FIG. 33



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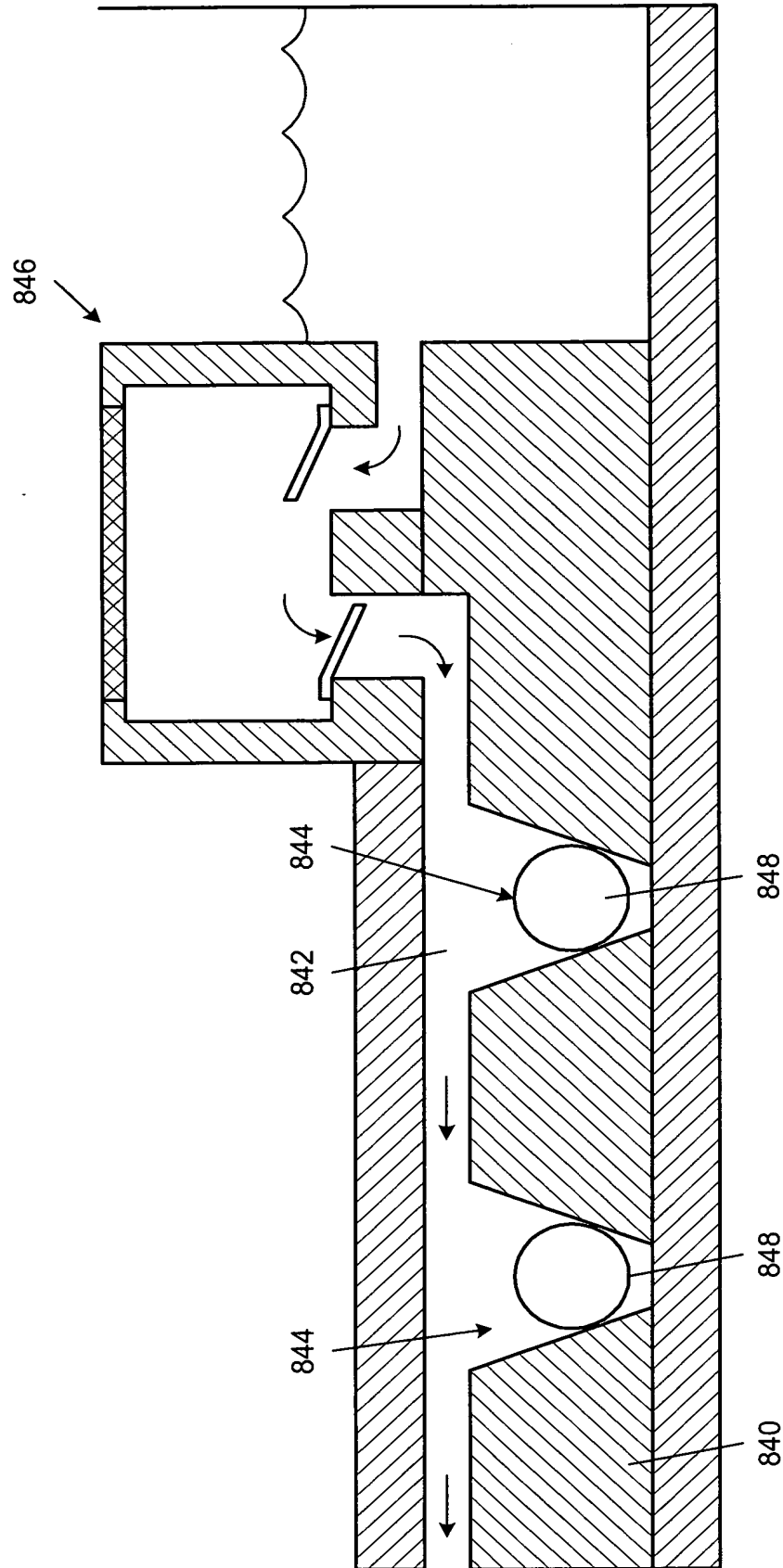
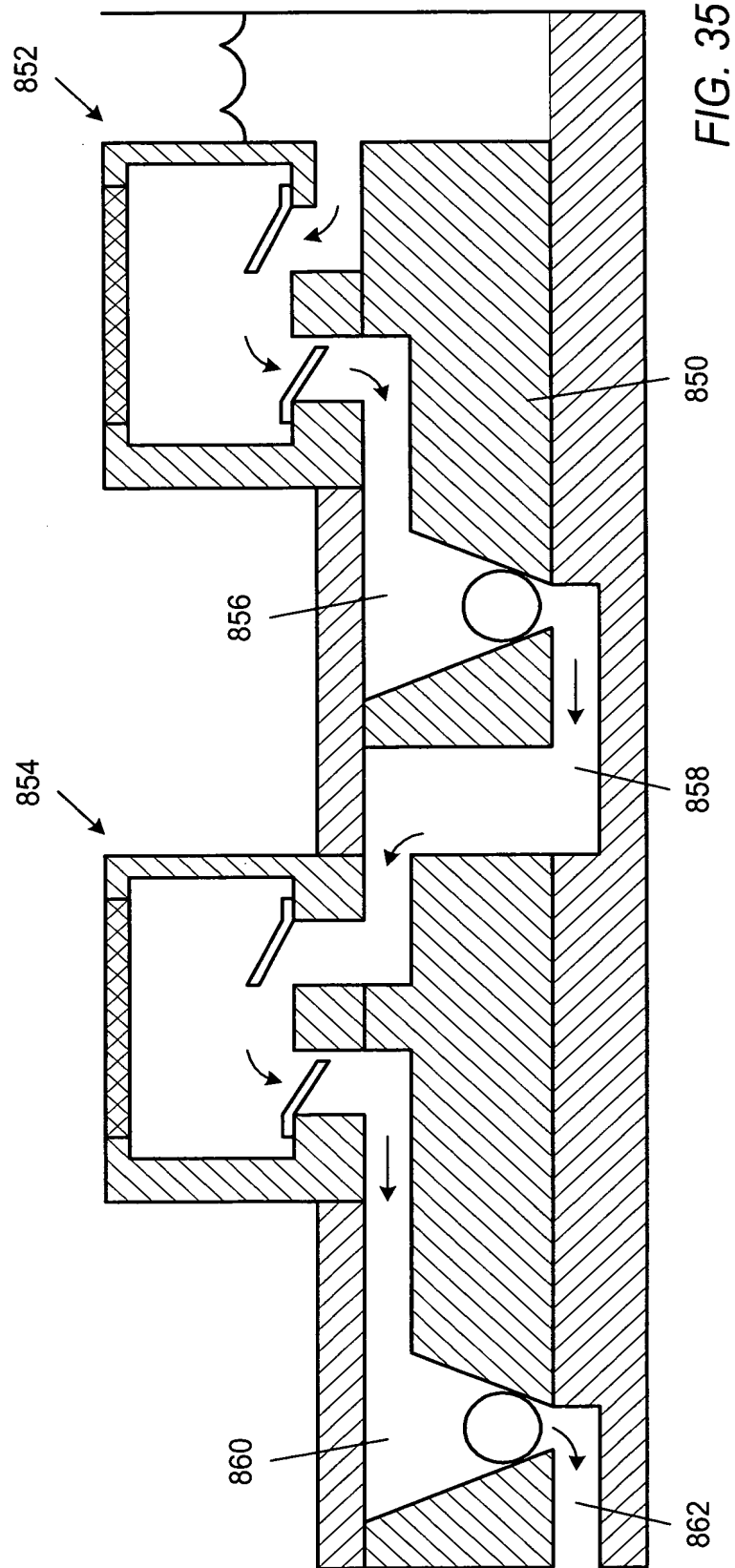


FIG. 34

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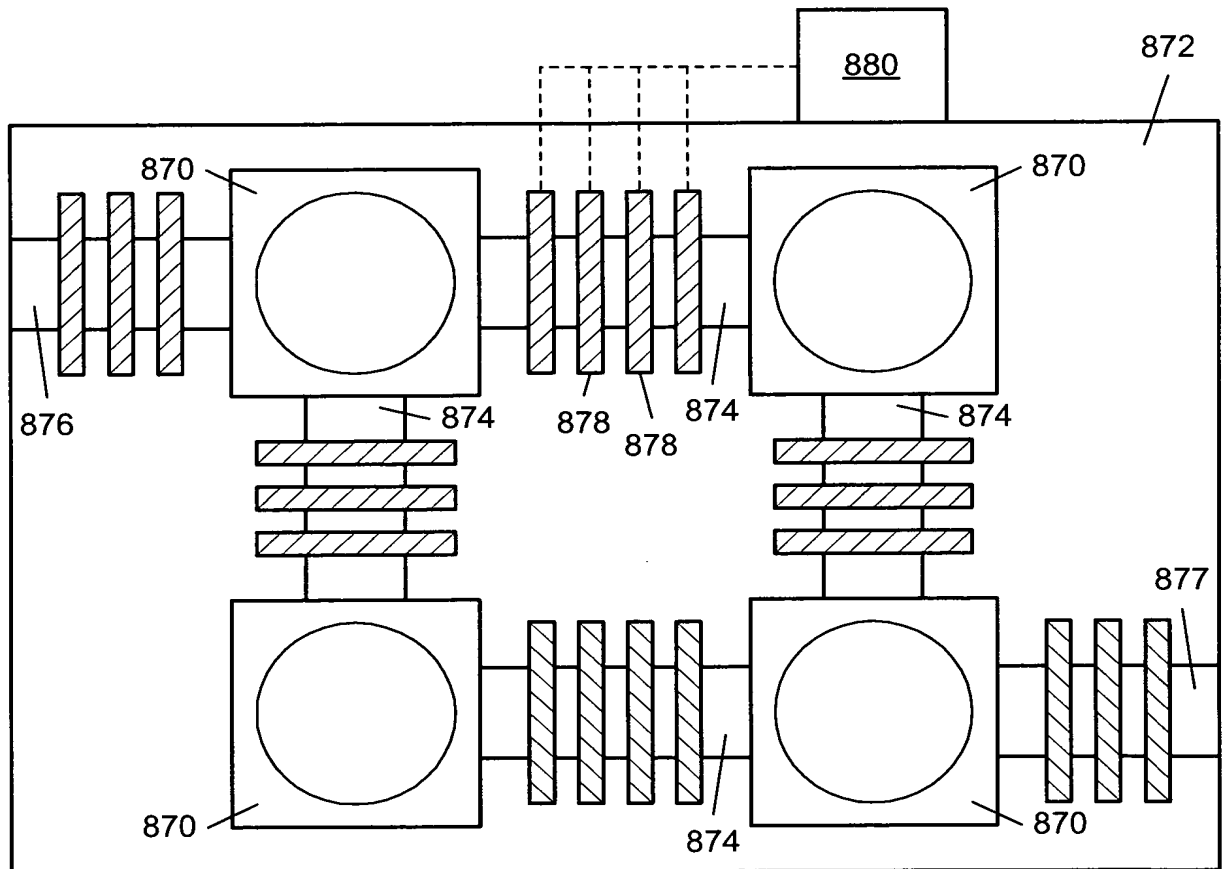
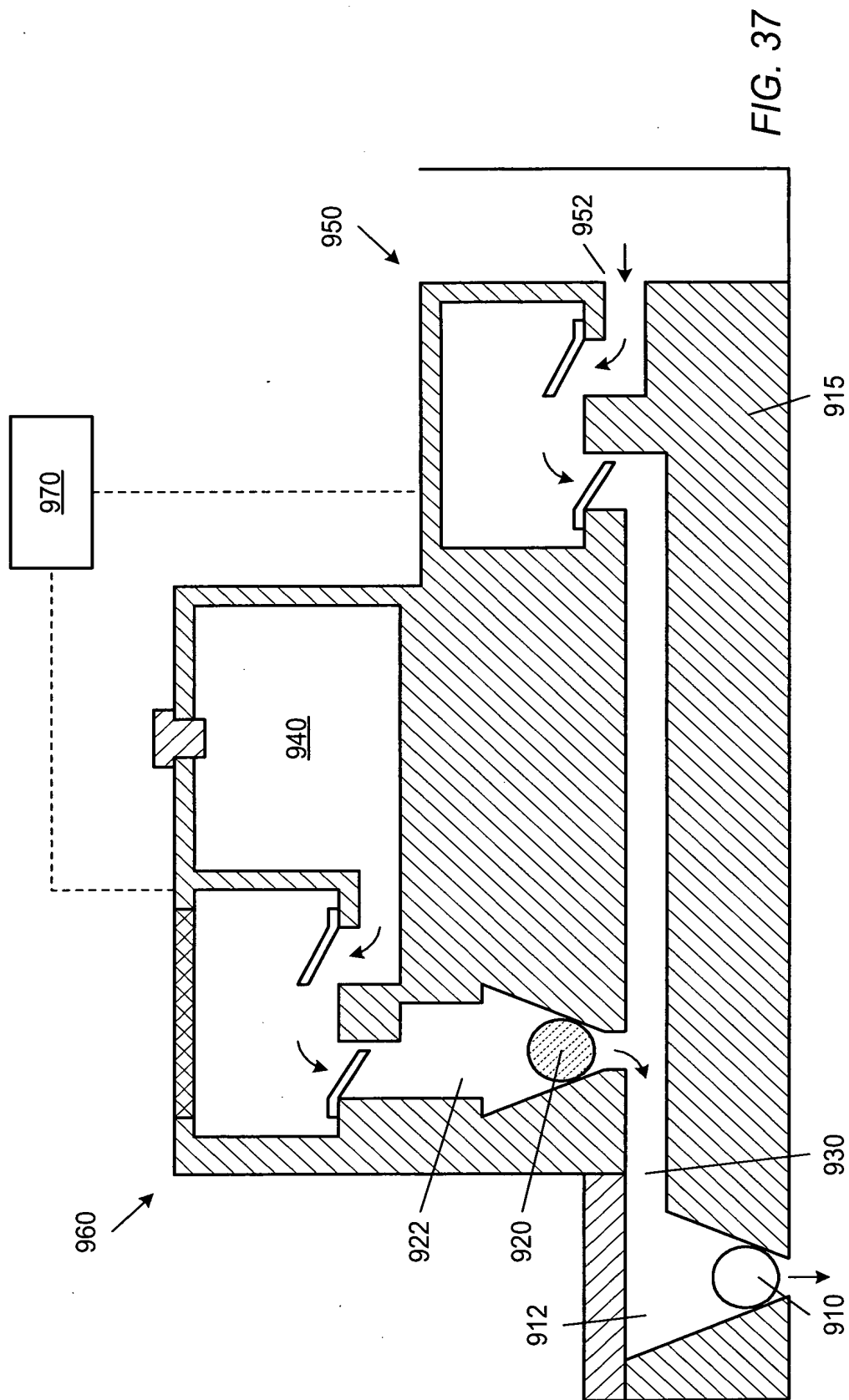


FIG. 36

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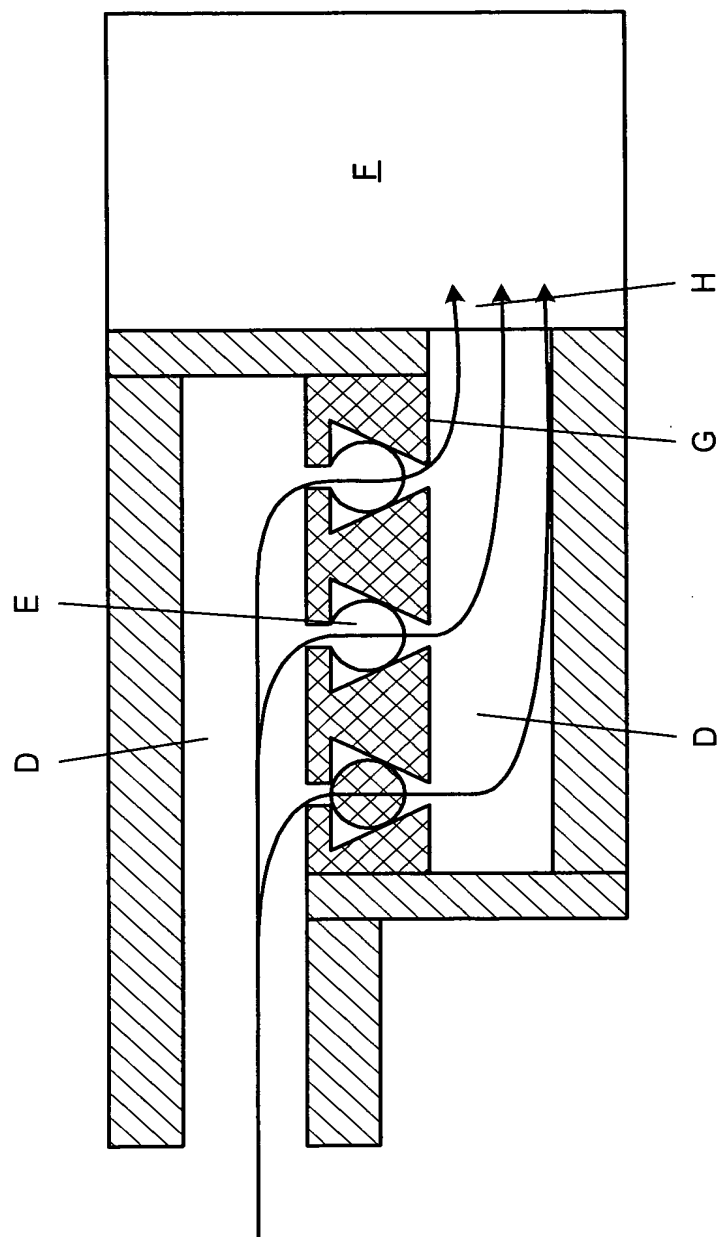


FIG. 38

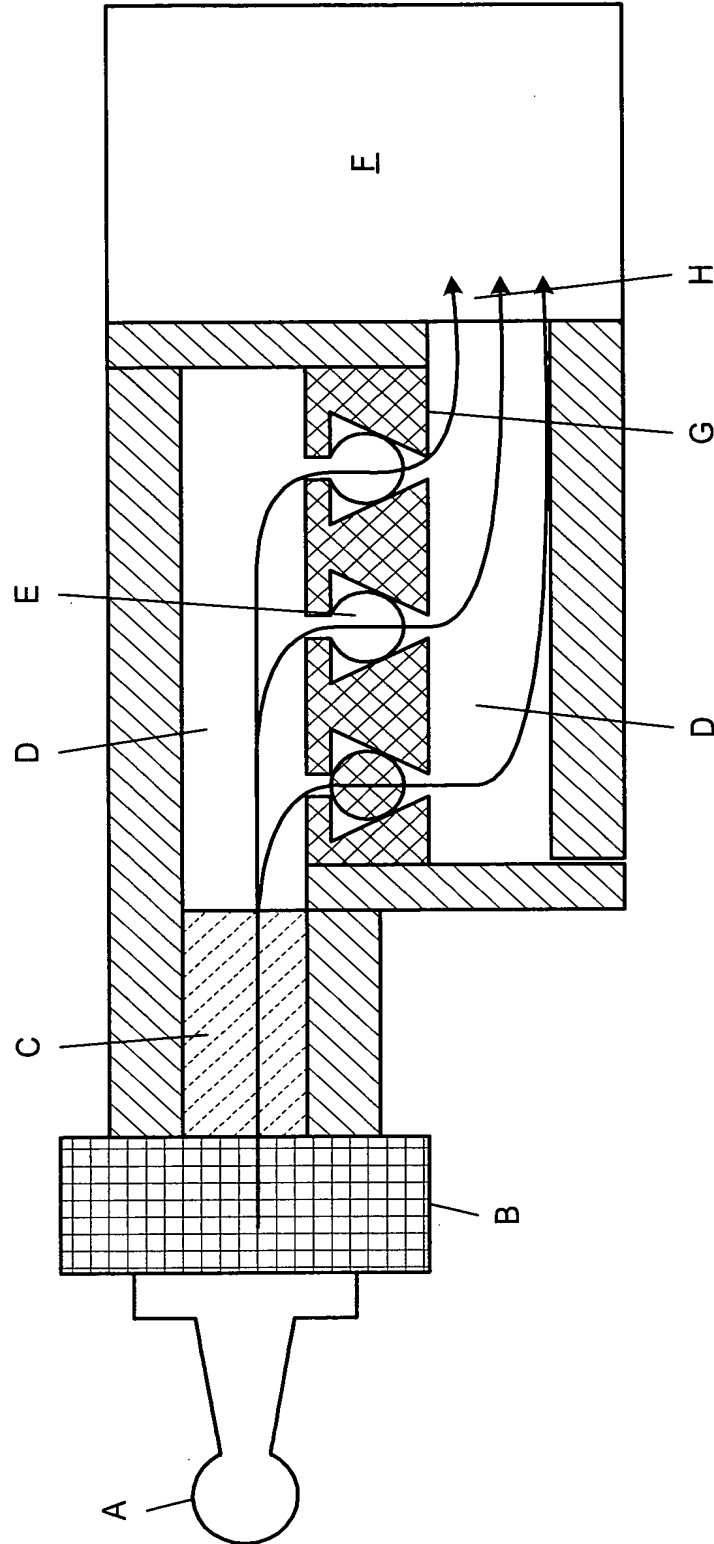
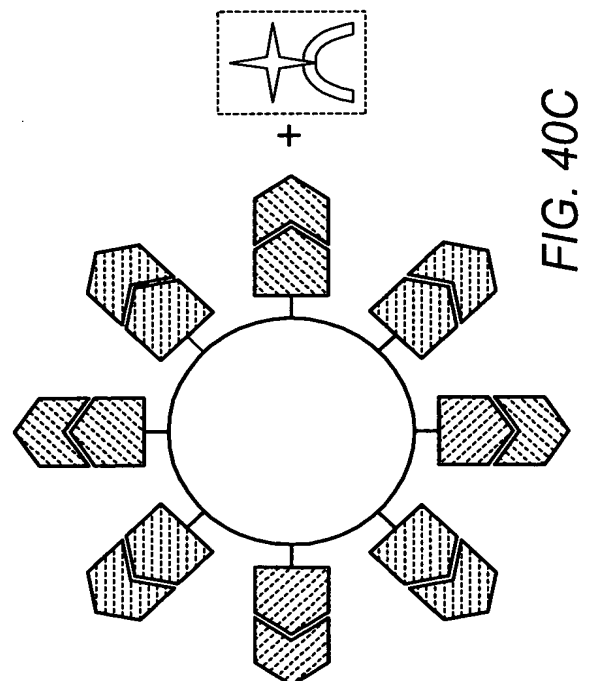
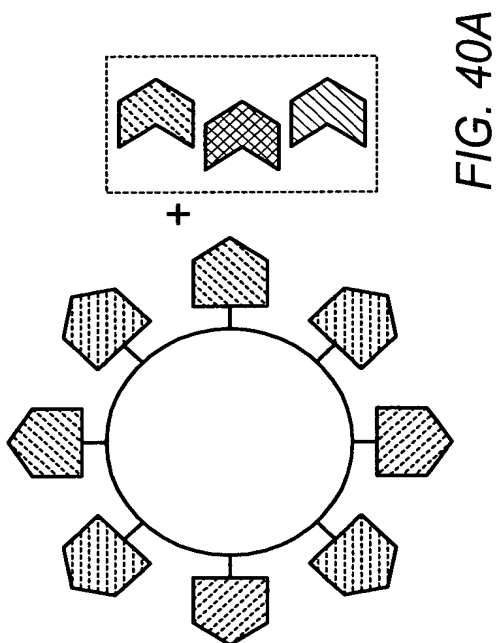
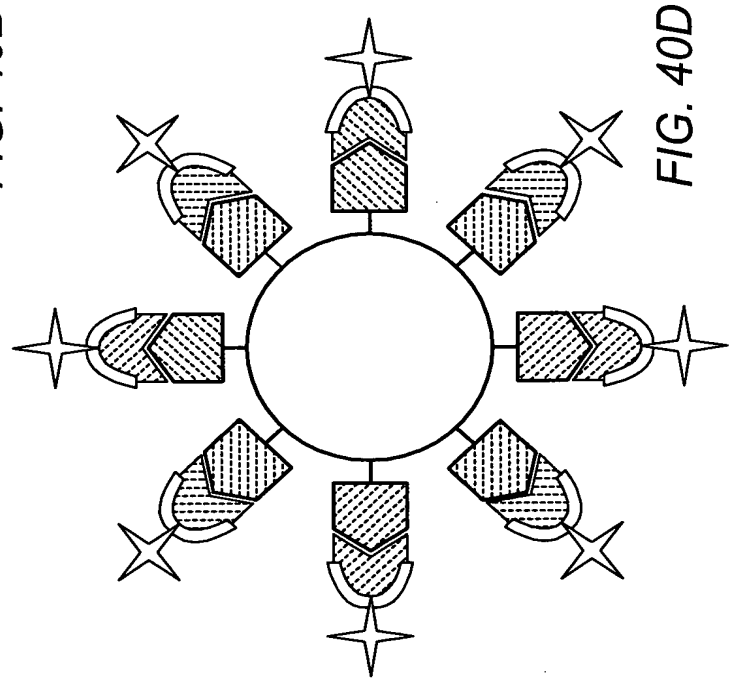
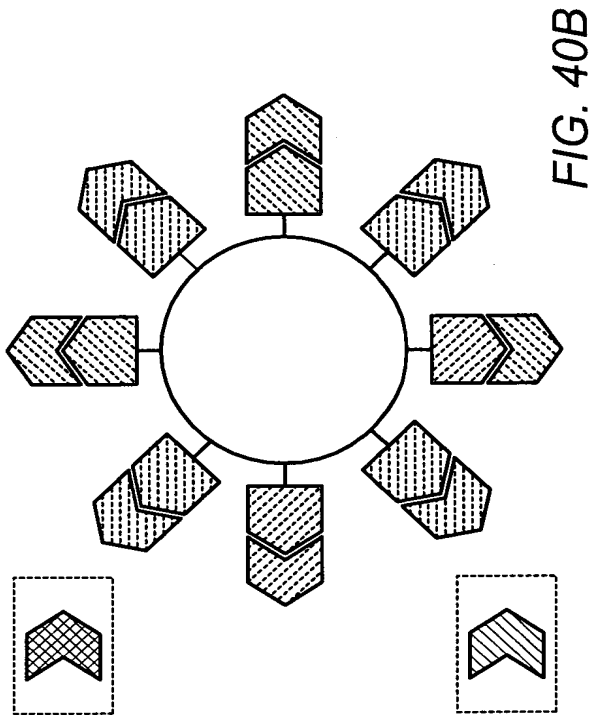


FIG. 39

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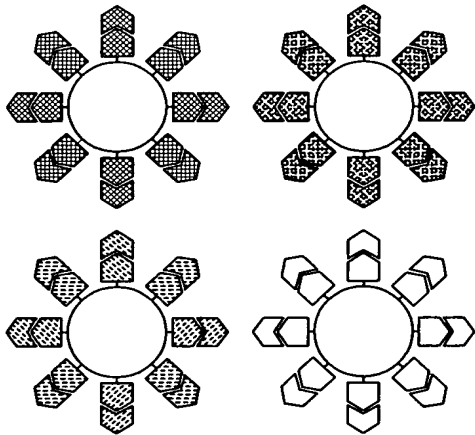


FIG. 41B

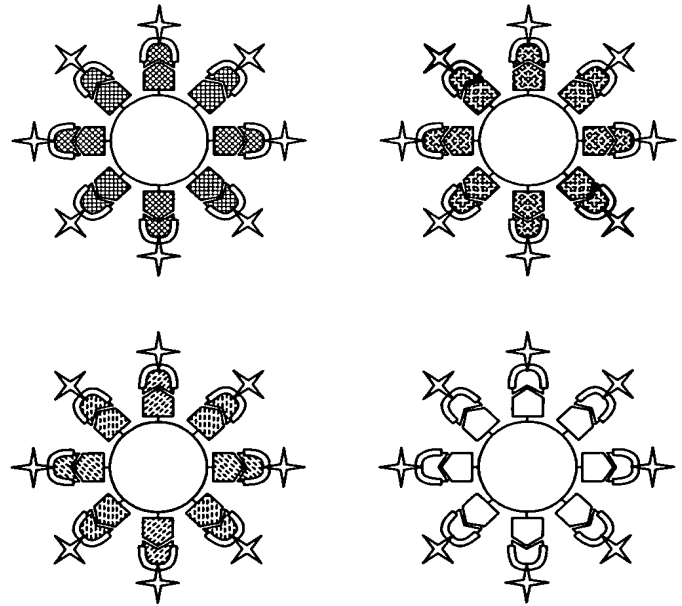


FIG. 41D

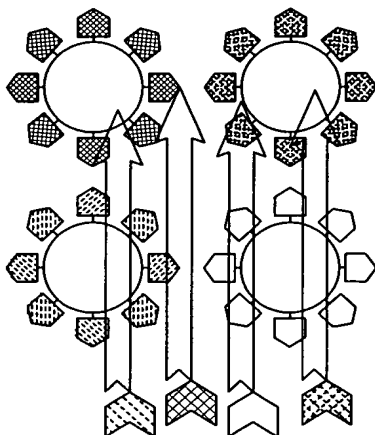


FIG. 41A

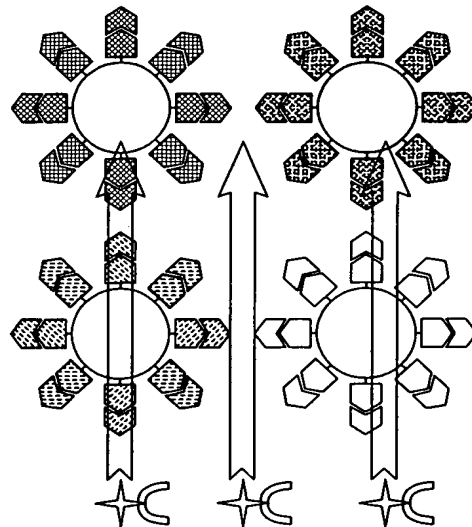


FIG. 41C



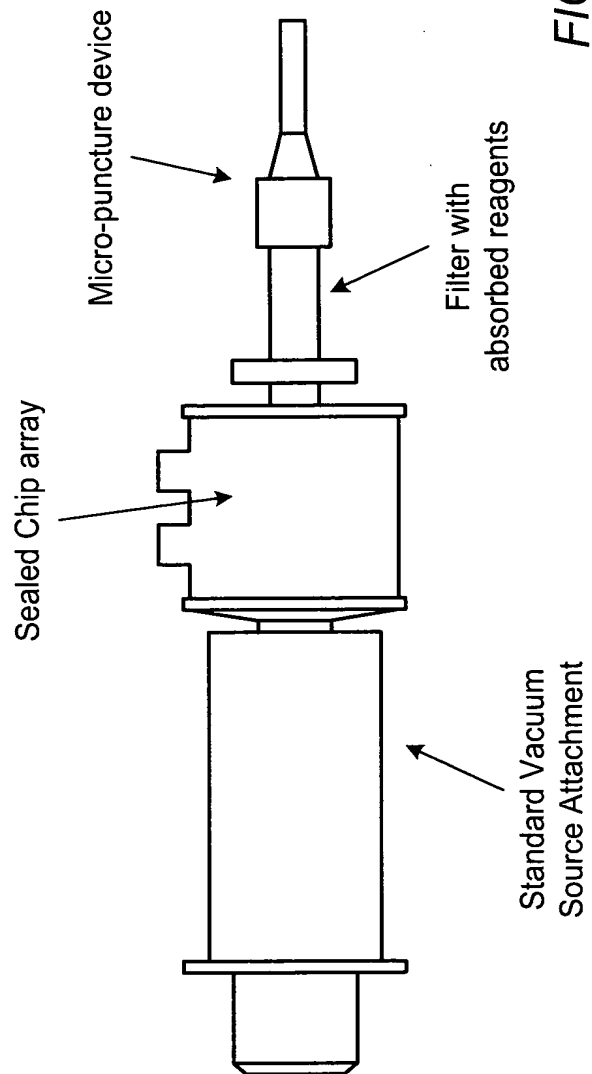


FIG. 42

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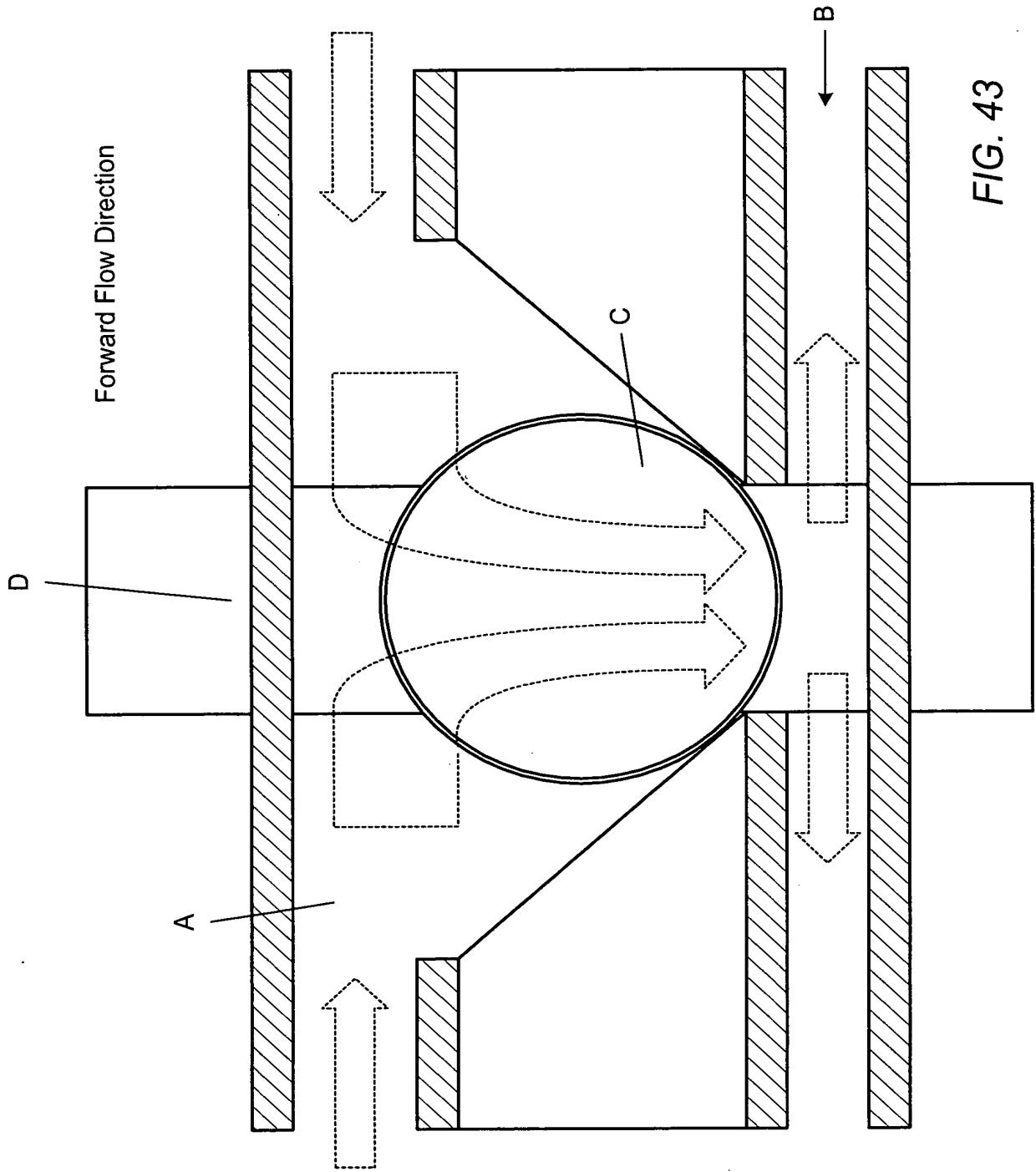
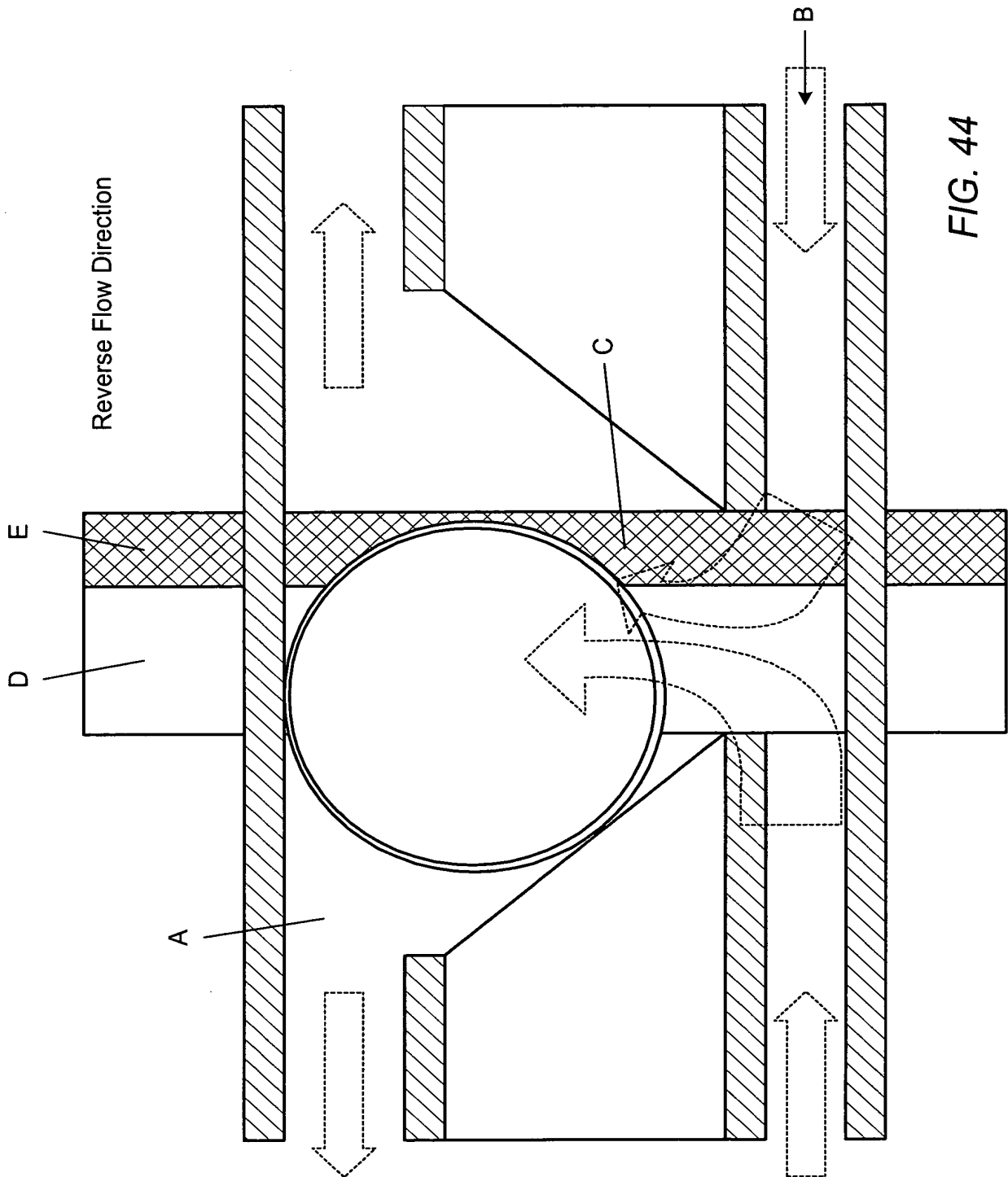


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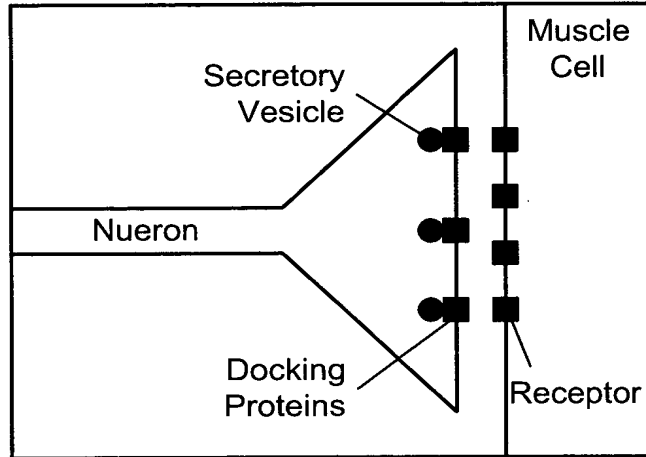


FIG. 45A

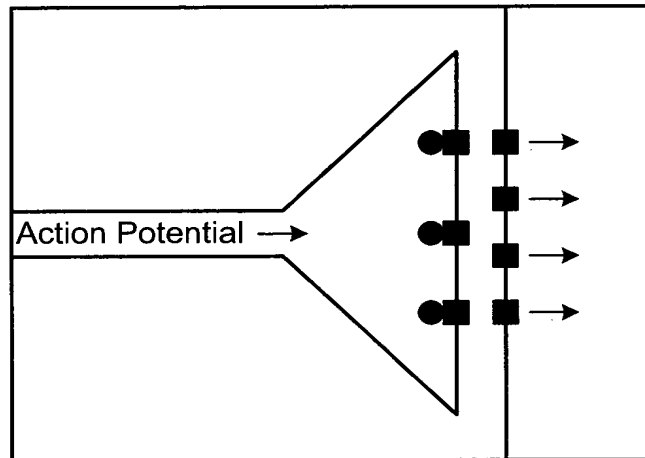


FIG. 45B

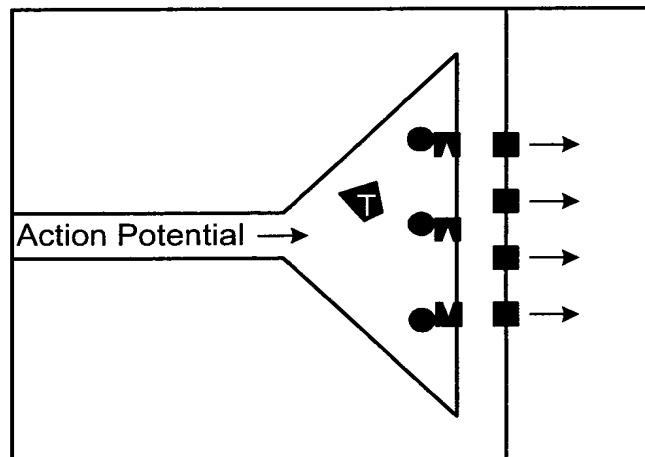


FIG. 45C

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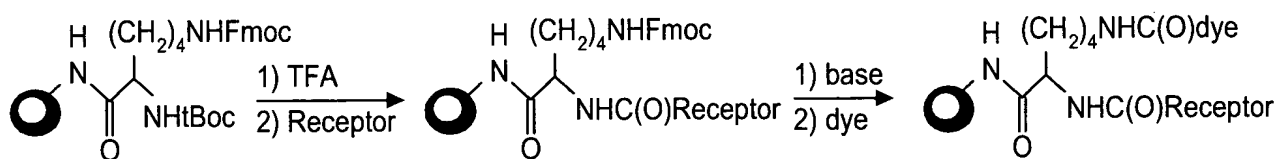


FIG. 45D

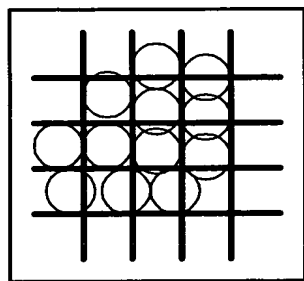


FIG. 46A

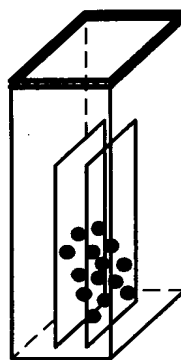


FIG. 46B

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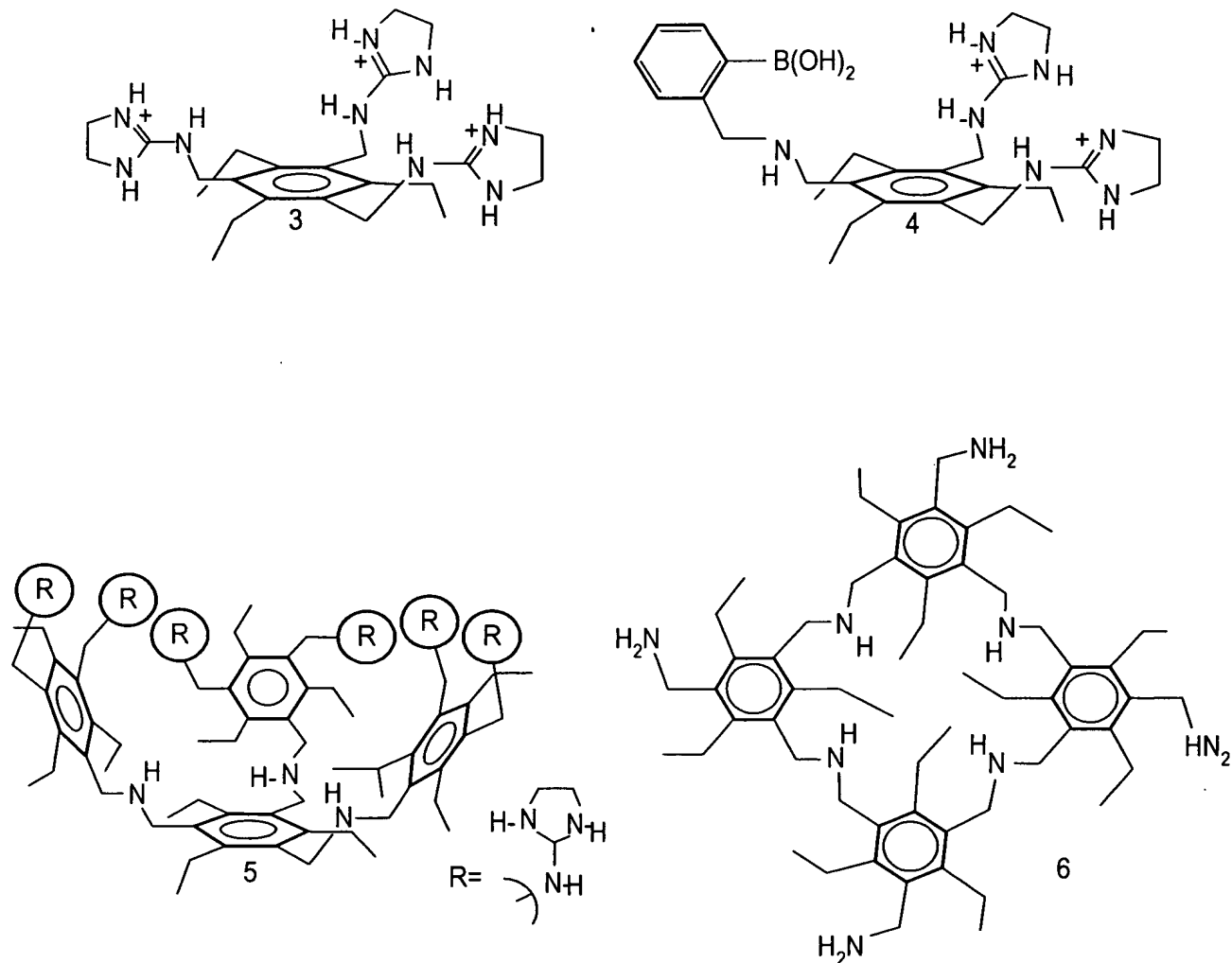


FIG. 47

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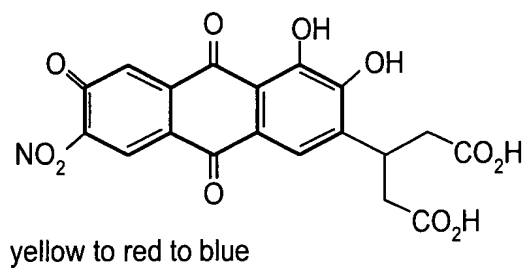
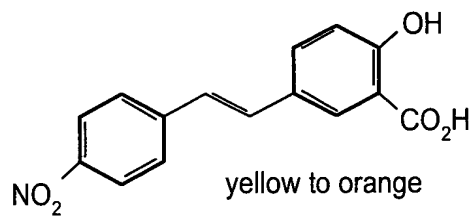
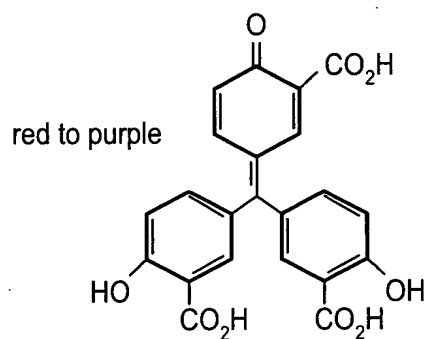
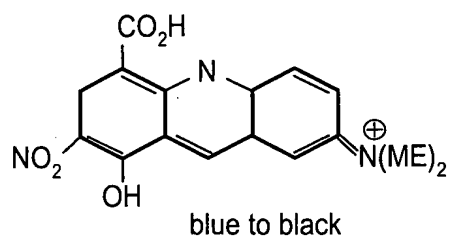
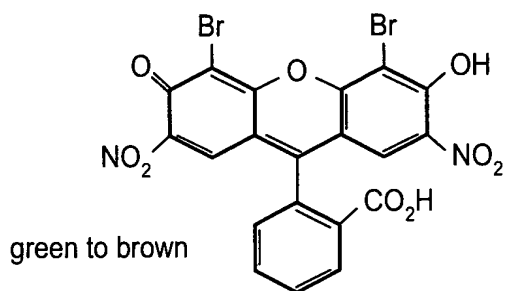
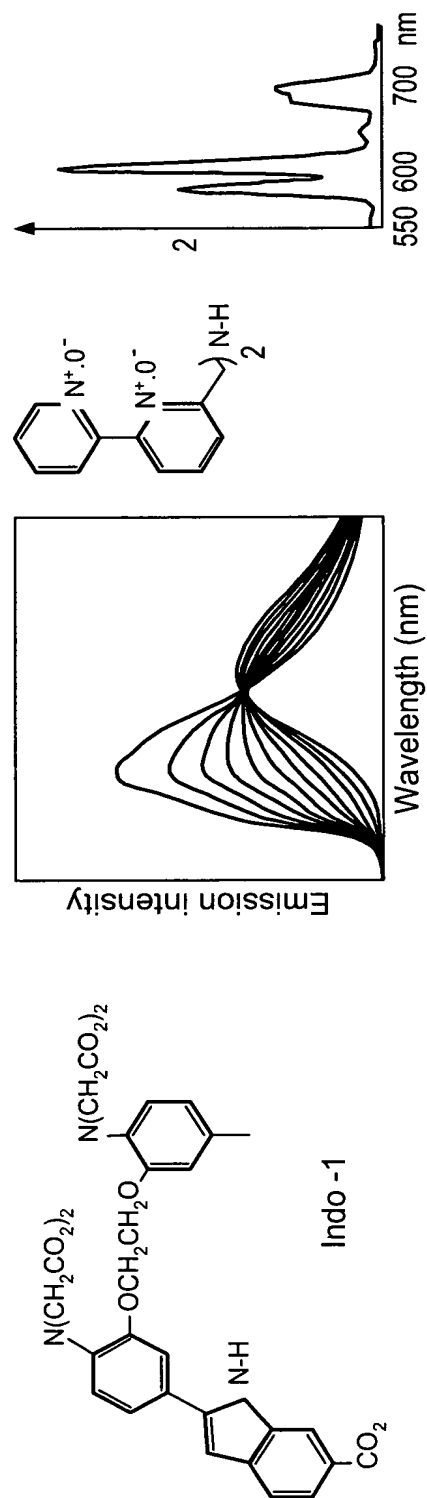
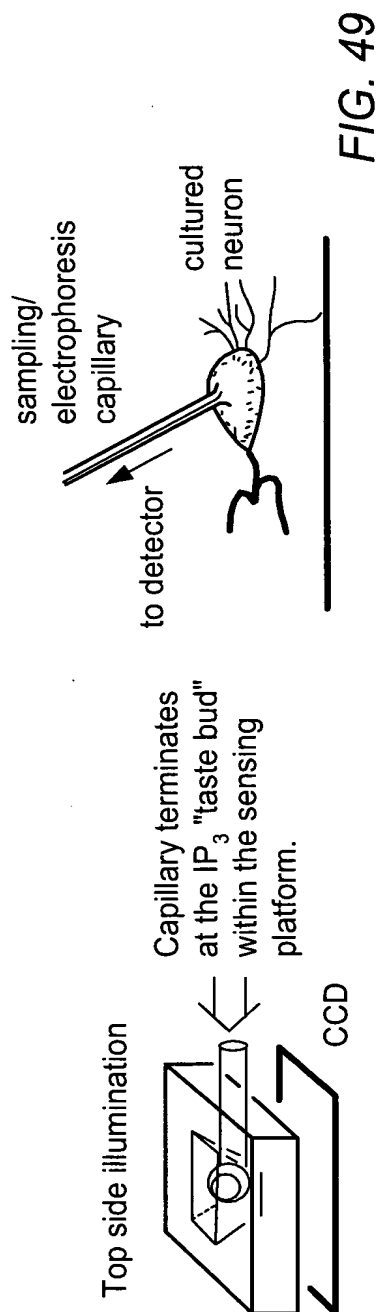


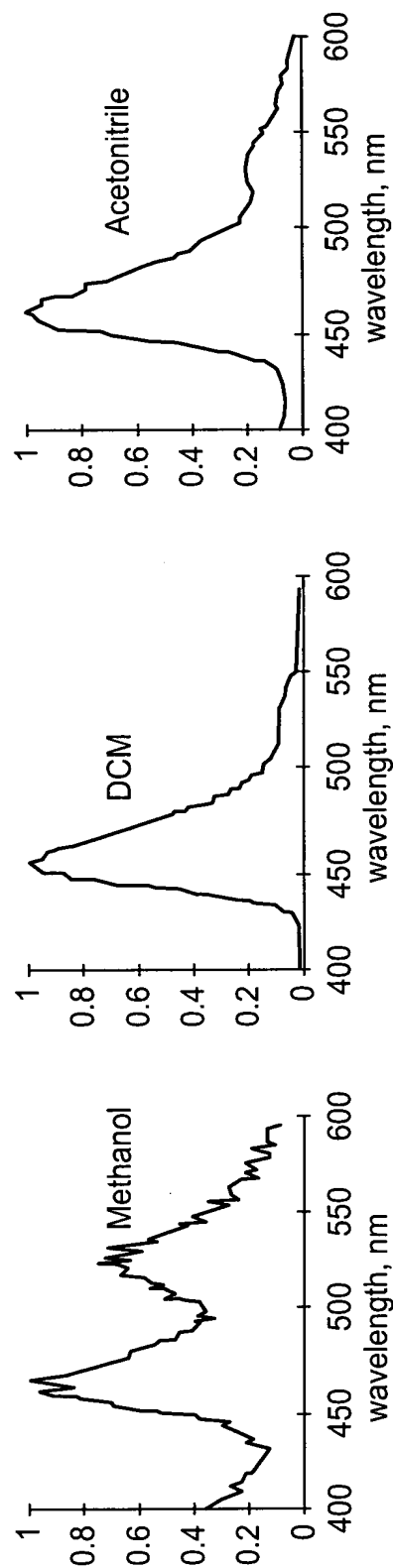
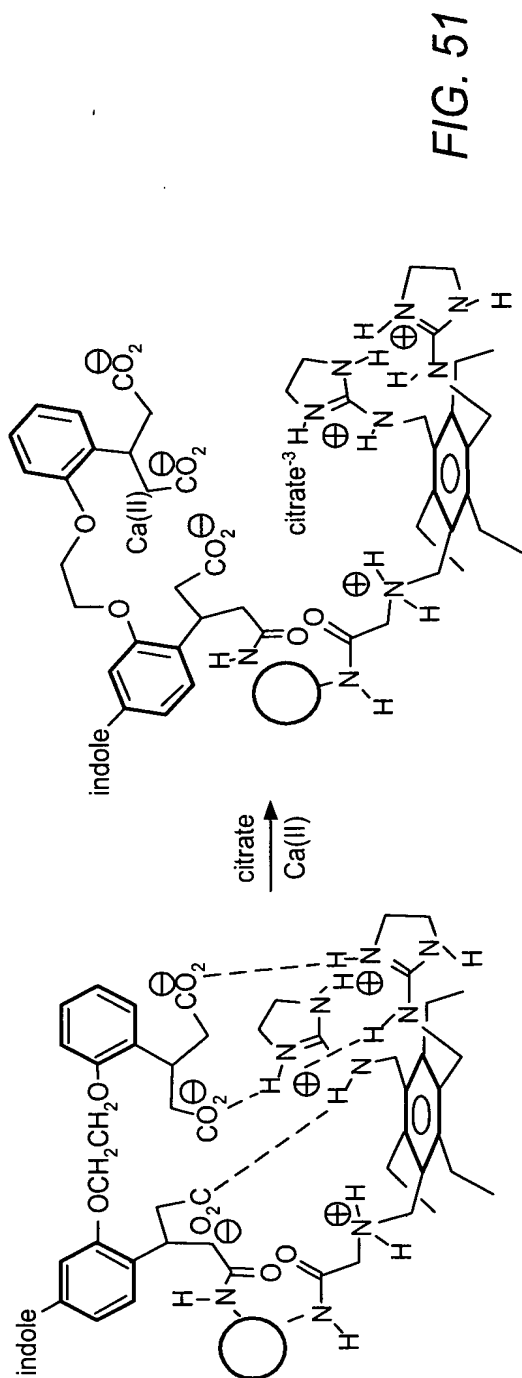
FIG. 48

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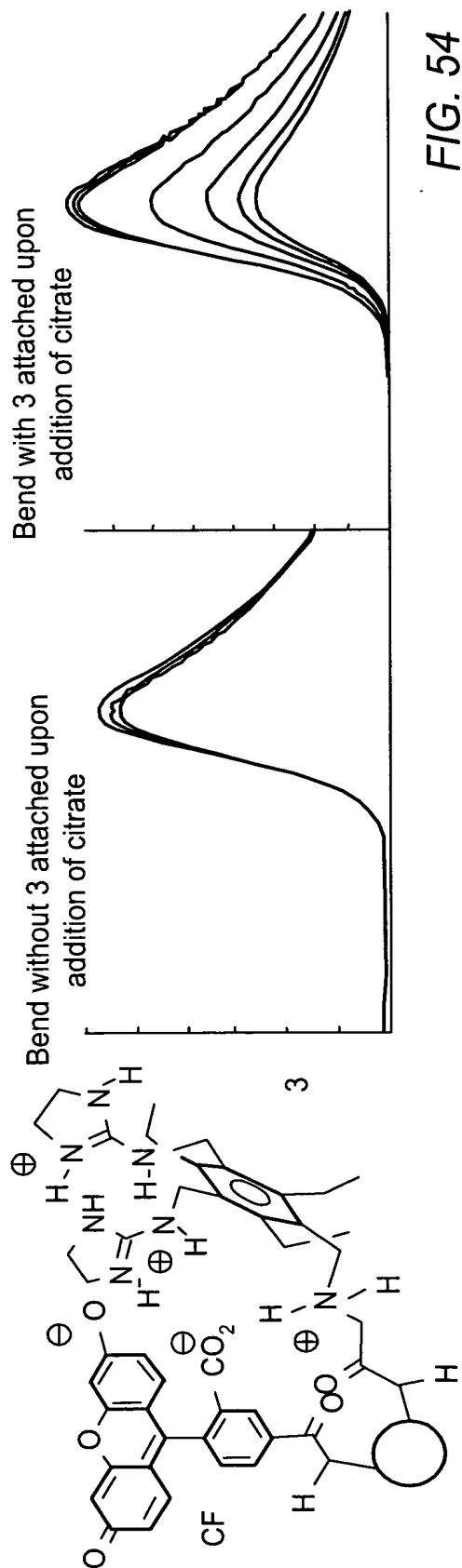
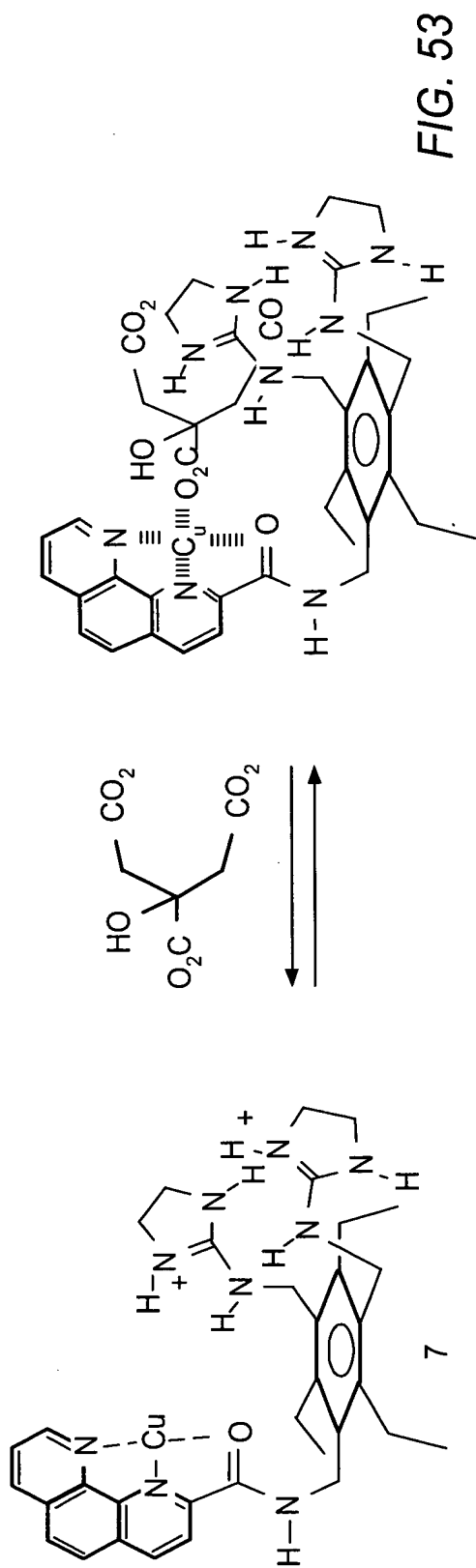




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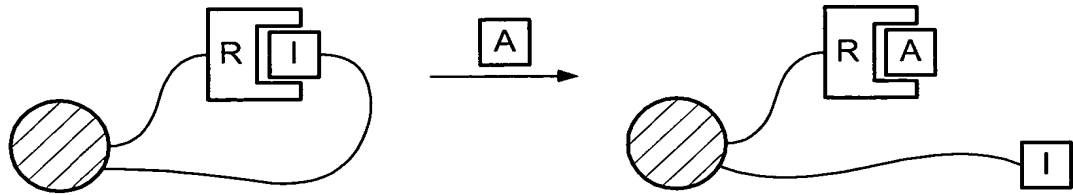


FIG. 55A

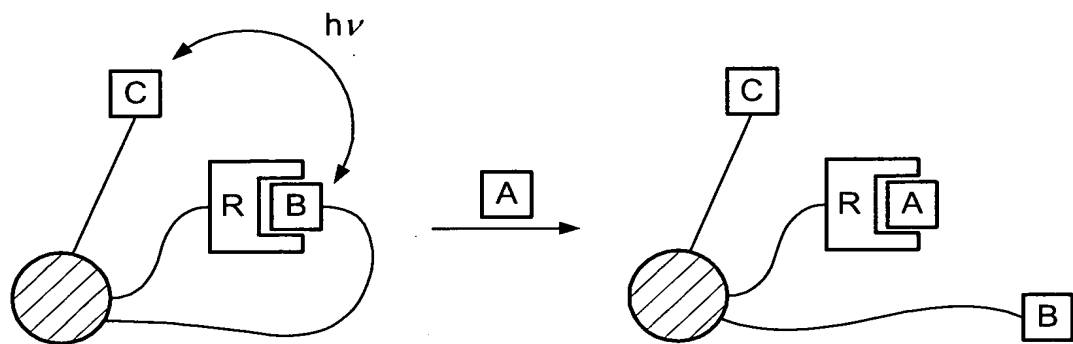


FIG. 55B

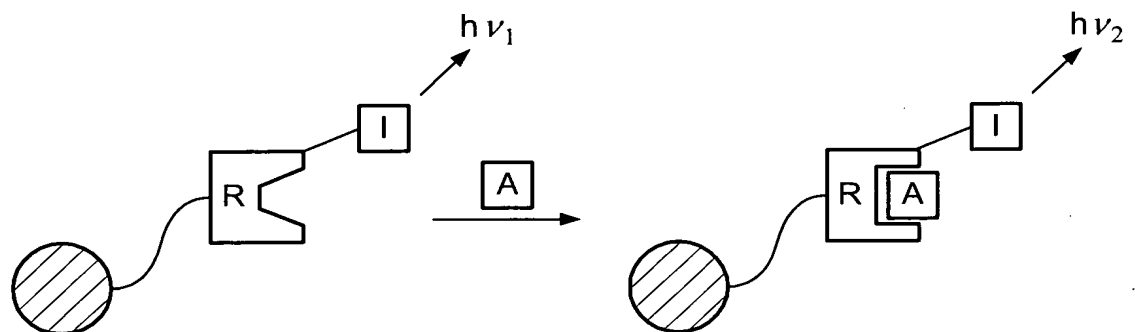


FIG. 55C

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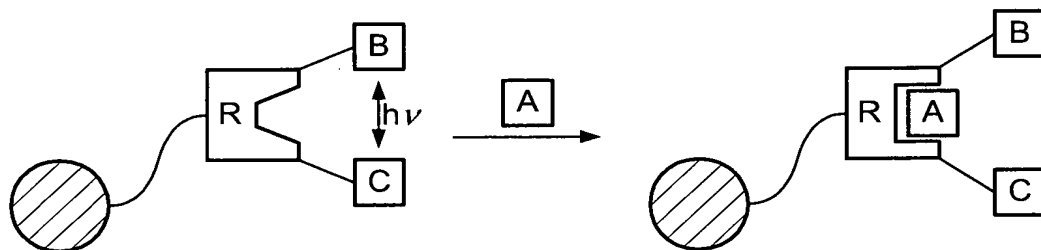


FIG. 55D

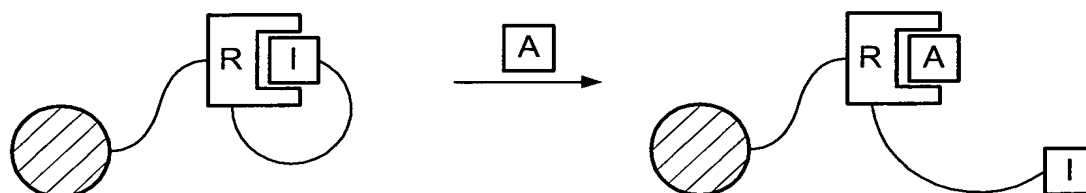


FIG. 55E

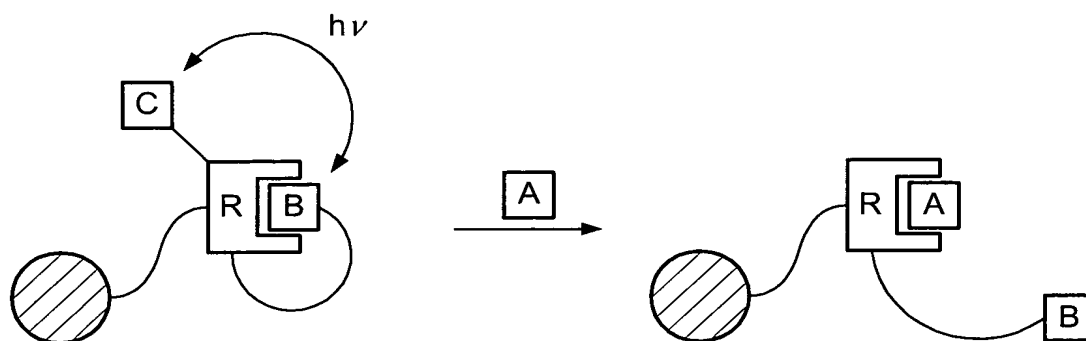


FIG. 55F

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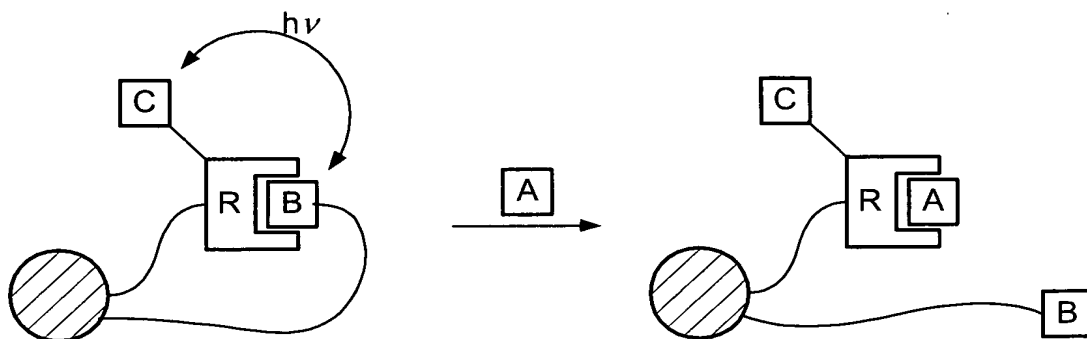


FIG. 55G

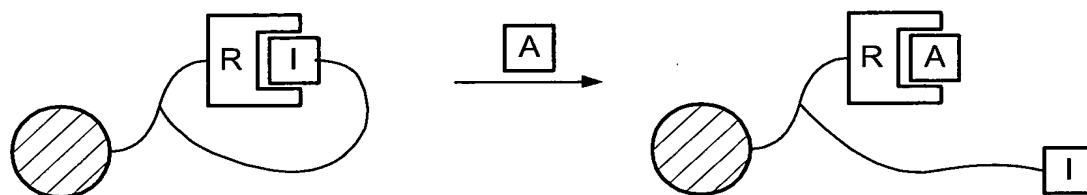


FIG. 55H

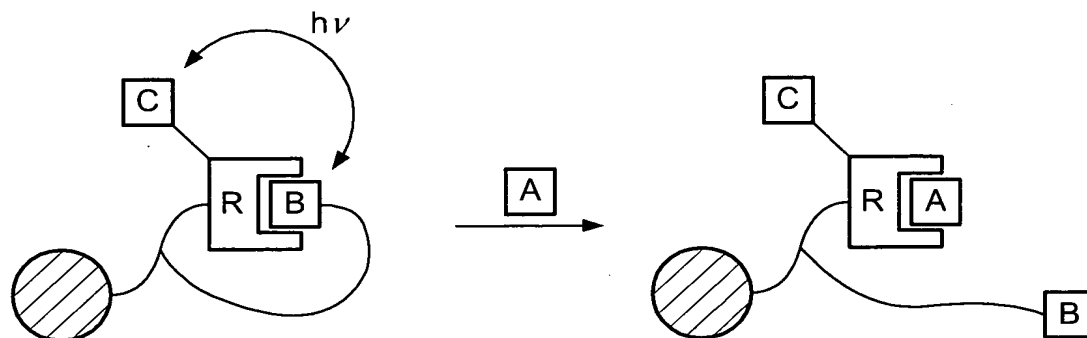


FIG. 55I

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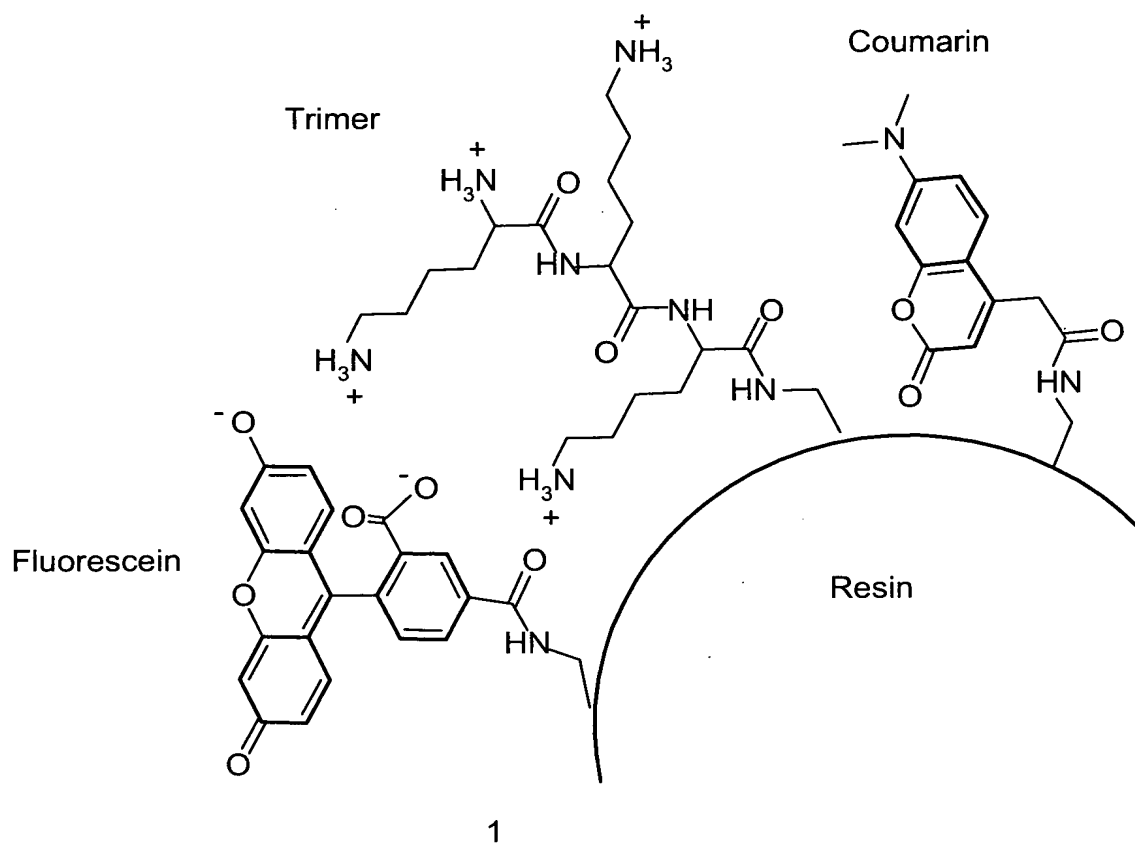


FIG. 56

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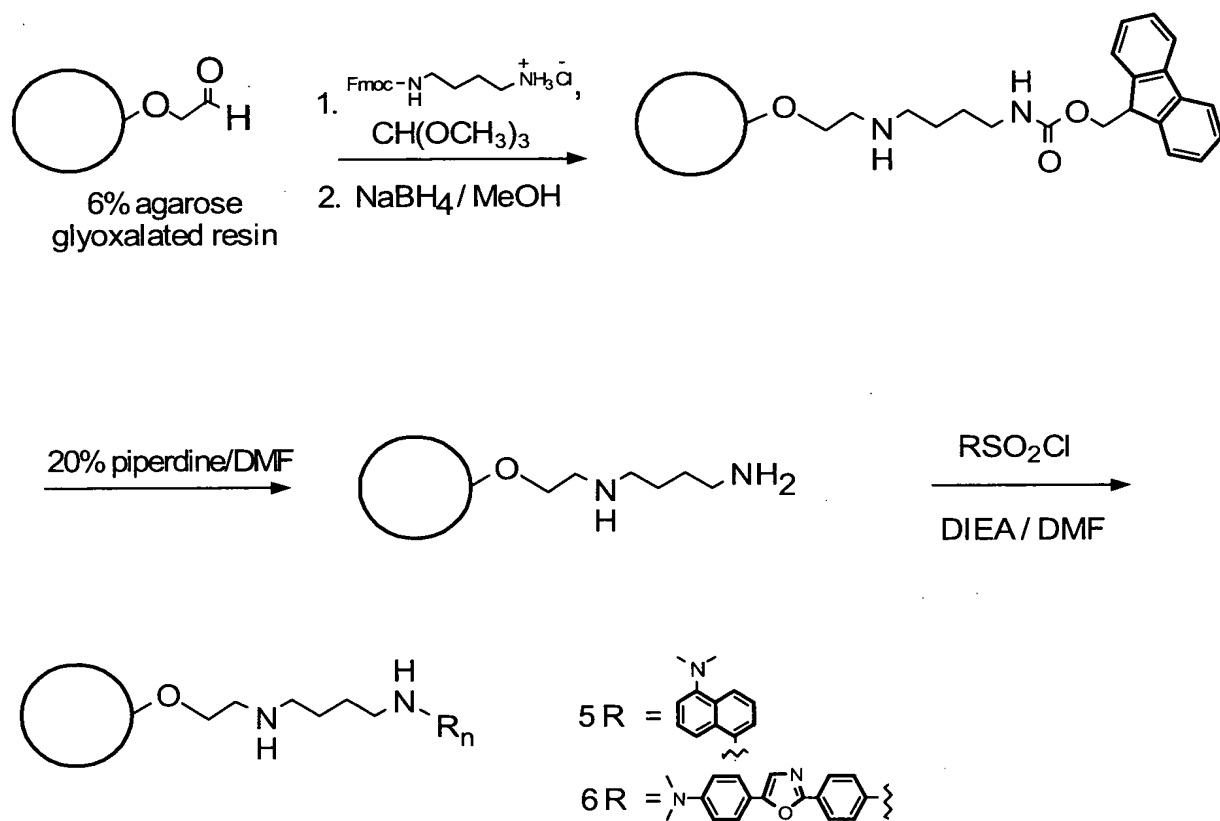


FIG. 57

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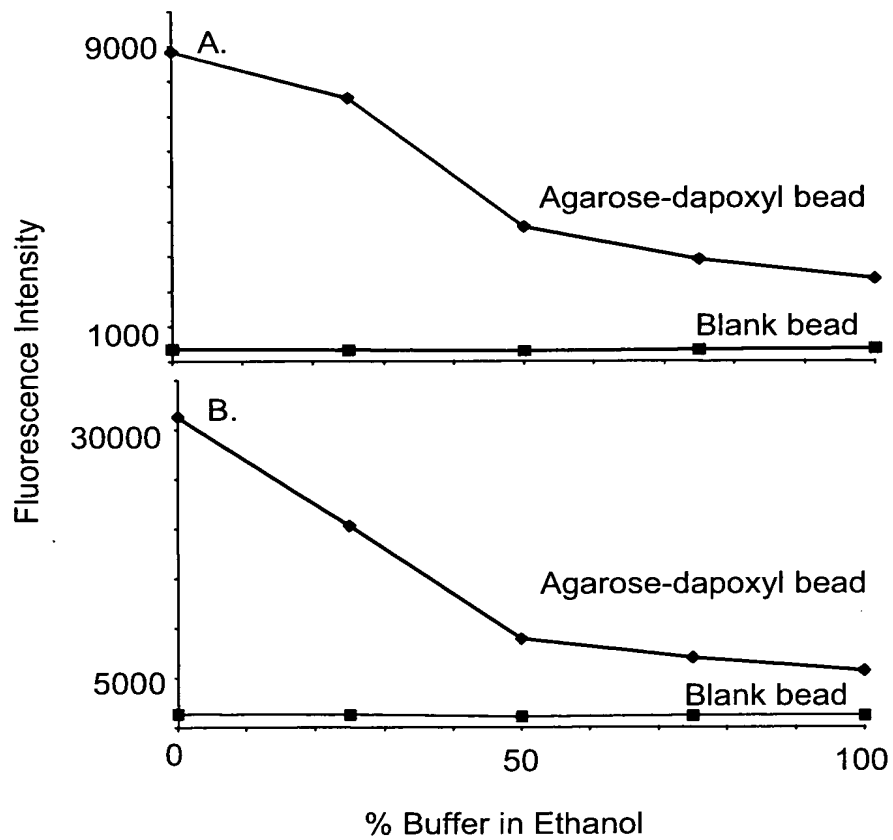


FIG. 58



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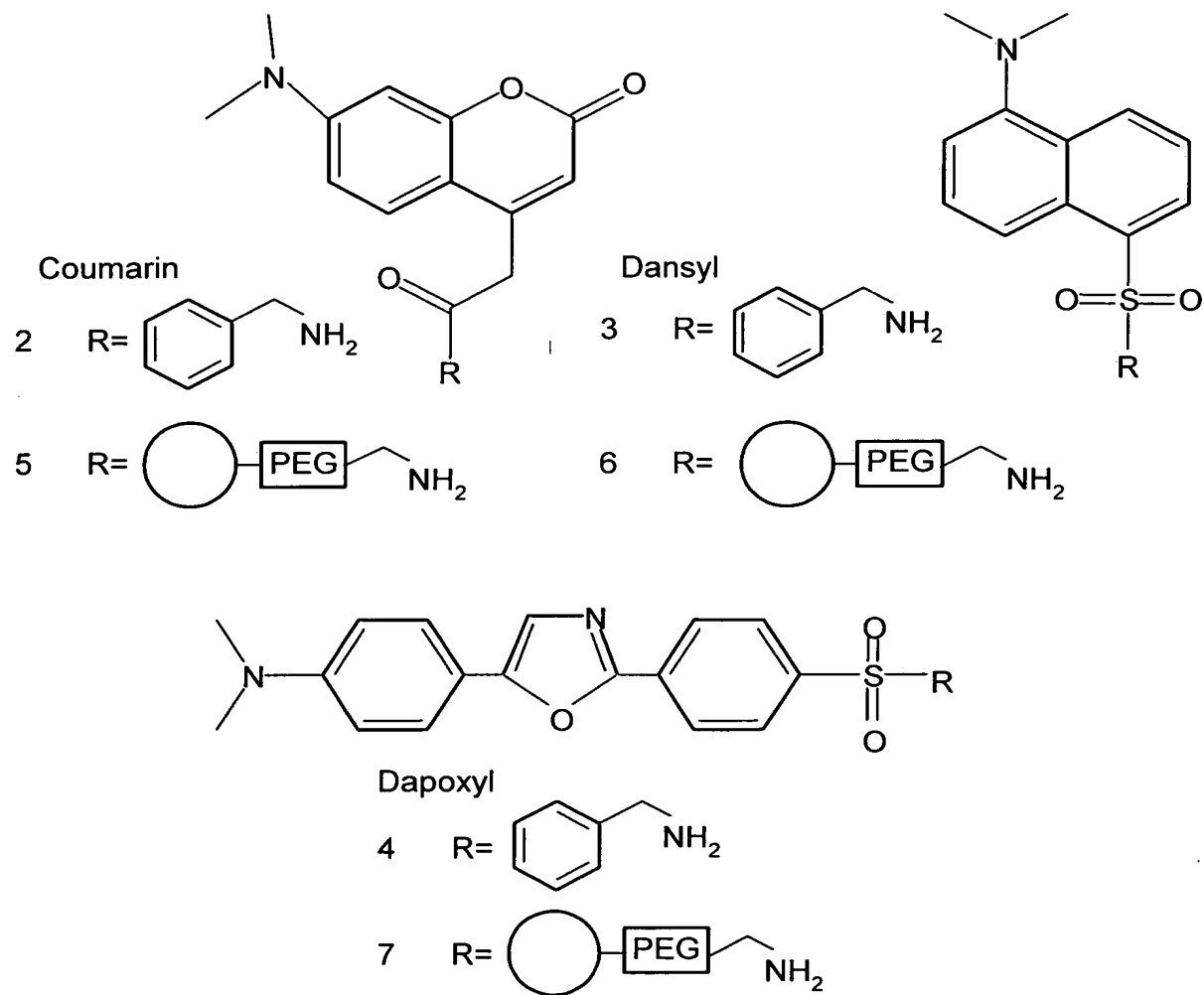
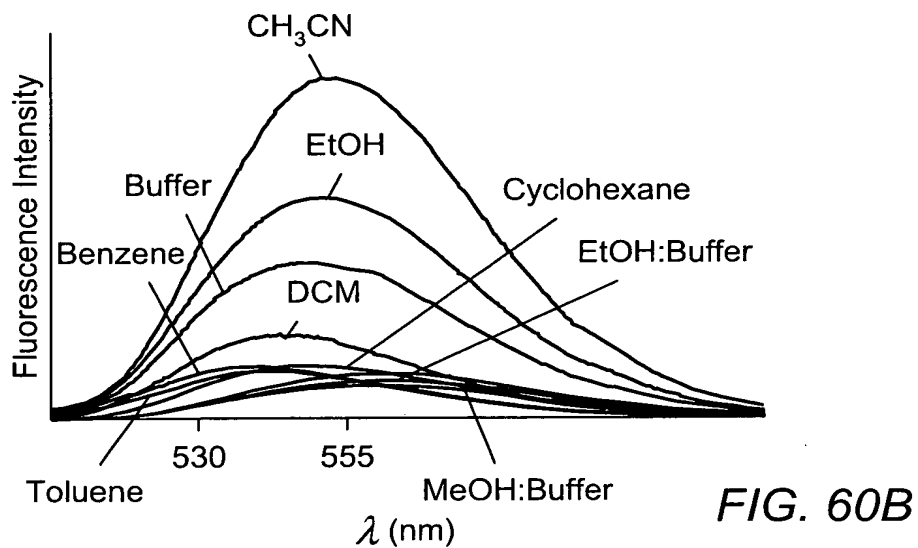
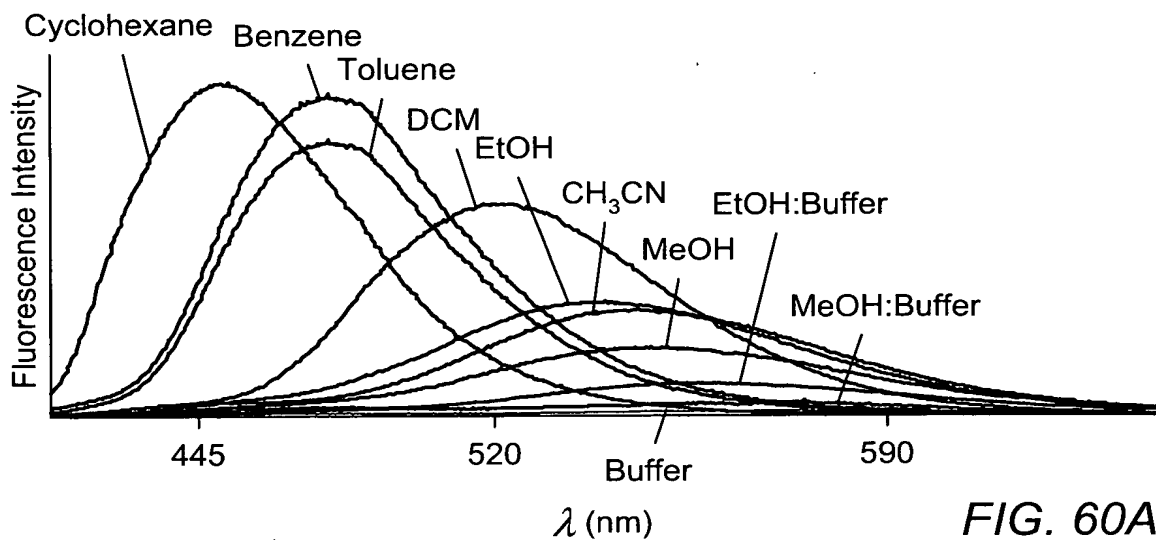


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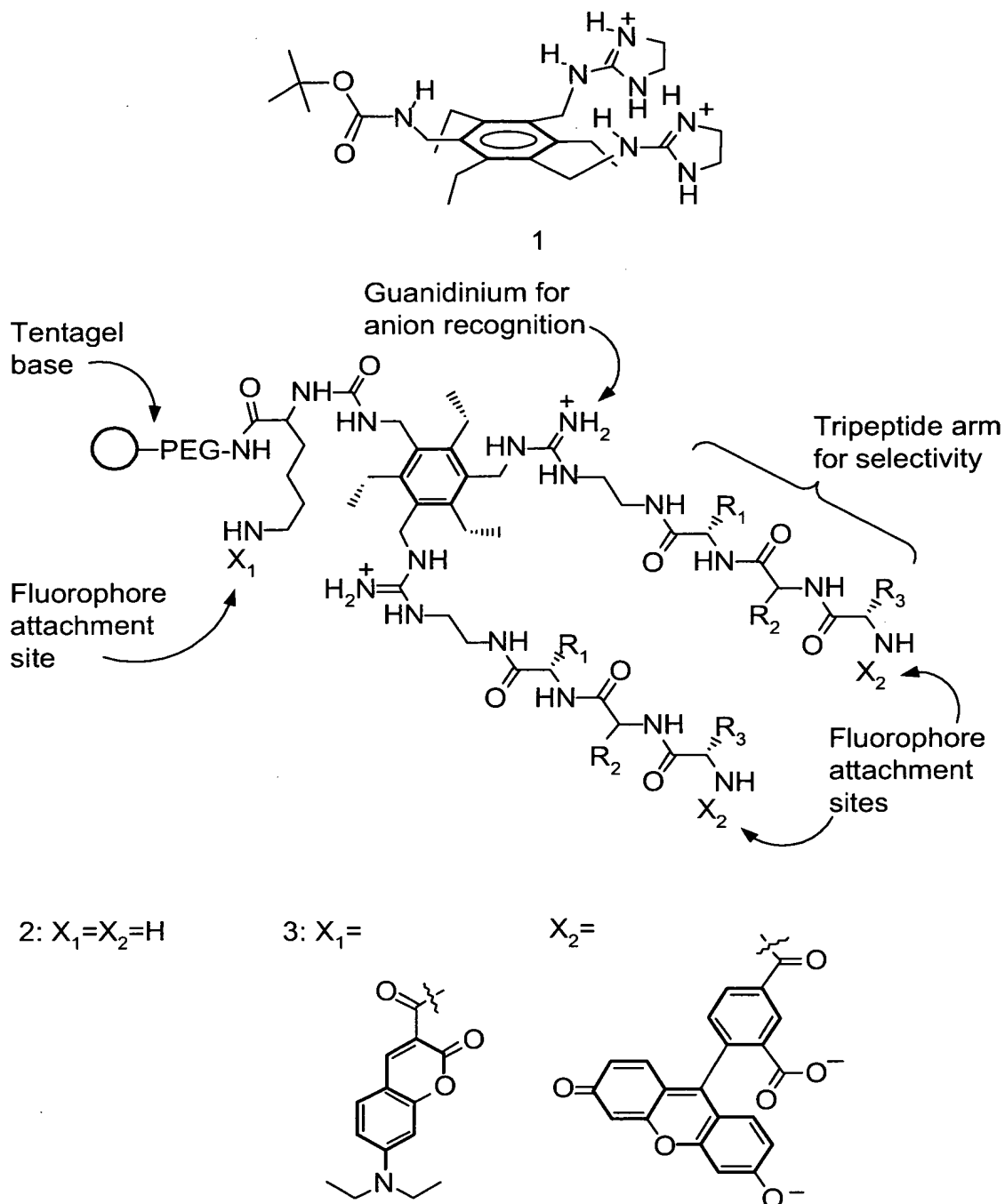


FIG. 61

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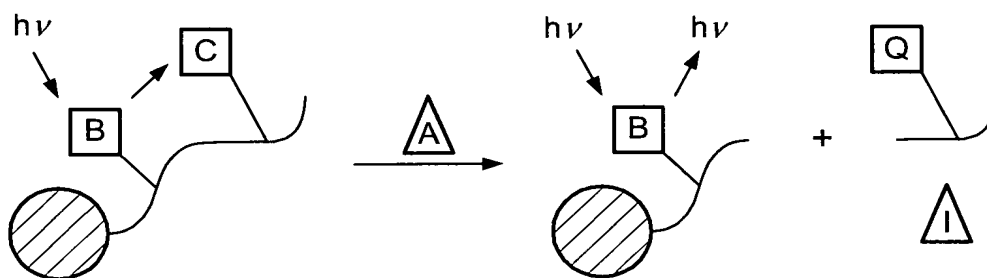


FIG. 62A

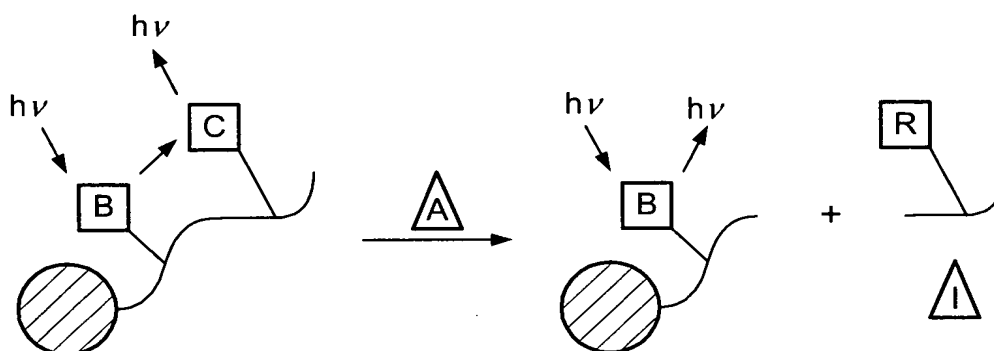


FIG. 62B

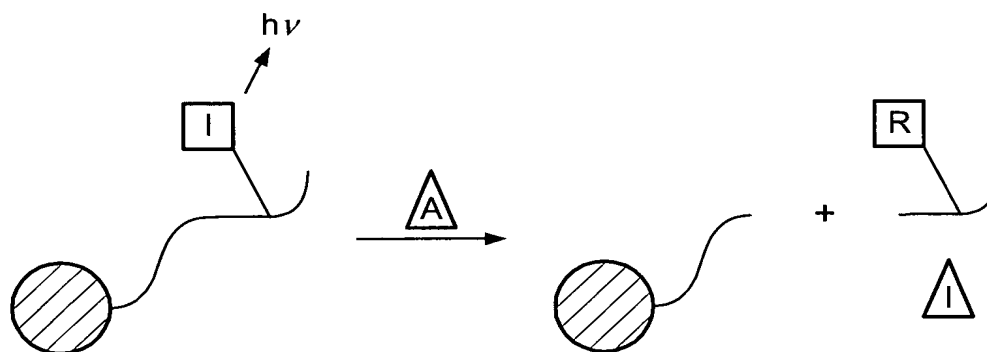


FIG. 62C

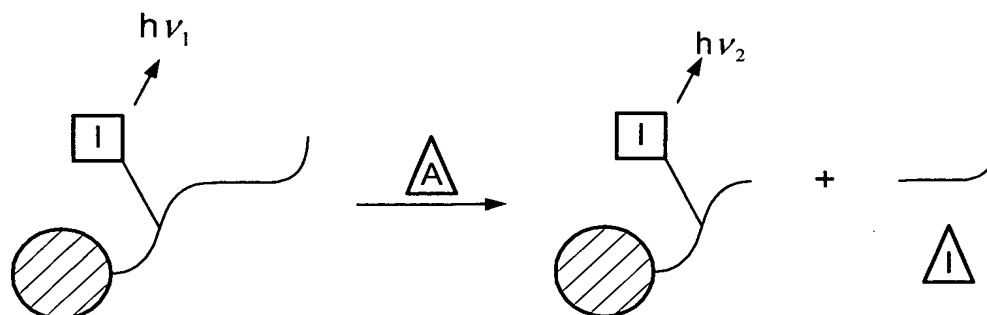


FIG. 62D

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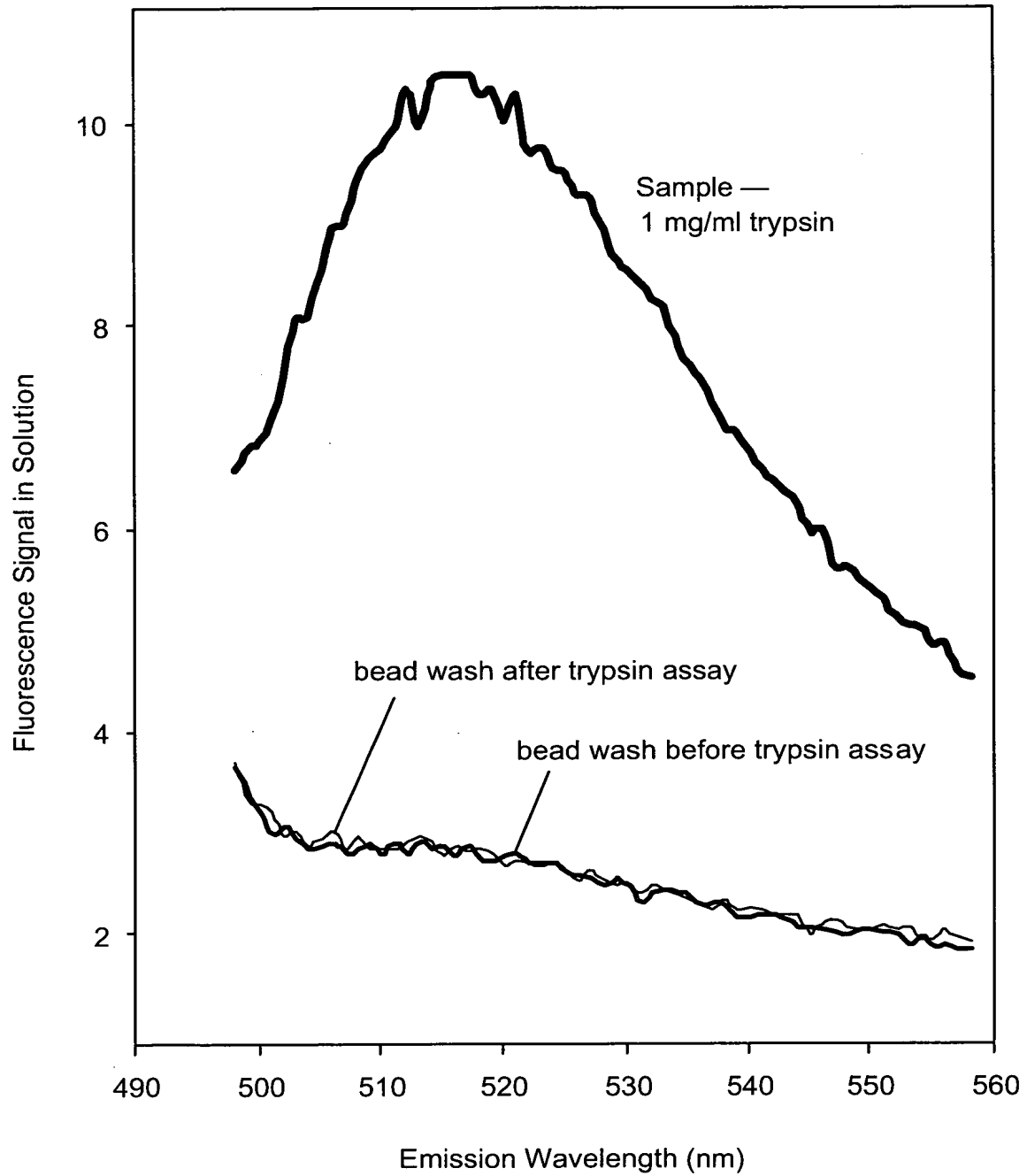


FIG. 63